
Electromechanical sensors for pressure control XM range

Catalogue





Electromechanical pressure and vacuum switches XM range

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Electromechanical pressure and vacuum switches for control circuits

For controlling the pressure of air, water, hydraulic oils, corrosive fluids and viscous products

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Electromechanical pressure switches for power circuits

For controlling the pressure of water

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Electromechanical sensors for pressure control

XM Range

Applications	Type of installation	Control circuits	
	Fluids controlled	Air, water, hydraulic oils, corrosive fluids, viscous products	
	Type of operation	Detection of a single threshold (fixed differential)	Regulation between 2 thresholds (adjustable differential)



Fluid characteristics		Air, fresh water, corrosive fluids, viscous products, up to 160°C Sea water, up to 30 °C, depending on model	
Sizes		- 1 bar...500 bar (- 14.5 psi...7250 psi)	
Dimensions of case (mm)	Width x height x depth	35 x 68 x 75	
Type of contacts		1 CO single-pole, snap action	
Degree of protection		IP 66: switches with terminal connections IP 65: switches with connector	
Electrical connection	Connector	EN 175301-803-A (ex-DIN 43650A), 4-pin male.	
	Screw terminals:	■ 1 tapped entry M20 x 1.5 mm for ISO cable gland or ■ 1 tapped entry 1/2"-14 NPT for cable gland, depending on model.	
Fluid connection		G 1/4 (female) 1/4" - 18 NPTF (female) G 1 1/4" (female) for viscous products	
Type reference		XMLA	XMLB
Pages		20 to 56	

Other versions

Electromechanical pressure and vacuum switches with alternative tapped cable entries and/or fluid entries: NPT etc. Please consult our Customer Care Centre.

Control circuits	
Air, water, hydraulic oils, corrosive fluids, viscous products	
Regulation between 2 thresholds (adjustable differential)	Dual stage switches Detection at each threshold (fixed differential)



Air, fresh water, corrosive fluids, viscous products, up to 160°C Sea water, up to 30 °C, depending on model	
- 1 bar...500 bar (- 14.5 psi...7250 psi)	
46 x 68 x 85	
2 CO single-pole, simultaneous, snap action	2 CO single-pole, staggered, snap action
IP 66: switches with terminal connections	
■ EN 175301-803-A (ex-DIN 43650A), 4-pin male.	
■ 1 tapped entry M20 x 1.5 mm for ISO cable gland or ■ 1 tapped entry 1/2"-14 NPT for cable gland, depending on model.	
G 1/4 (female) 1/4" - 18 NPTF (female) G 1 1/4 (female) for viscous products	
XMLC	XMLD
20 to 56	

Electromechanical sensors for pressure control

XM Range

Applications	Type of installation
	Fluids controlled
	Type of operation

Control circuits
Air, water
Regulation between 2 thresholds (adjustable differential)



Fluid characteristics	
Sizes	
Dimensions of case (mm)	Width x height x depth
Setting of switching points	
Type of contacts	
Degree of protection	
Electrical connection	Screw terminals
Fluid connection	
Type reference	
Pages	

Air, fresh water, sea water (0...+ 70°C)	
6 bar, 12 bar and 25 bar (87 psi, 174 psi and 362.5 psi)	
57 x 78 x 97.5	
Internal screws	External screws
1 CO single-pole, snap action	
IP 54	
■ 2 entries tapped for n° 13 cable gland, ■ one fitted with n° 13 cable gland, ■ one fitted with blanking plug.	
G 1/4 or 4 x G 1/4 (female), depending on model	
XMx	XMA
66 to 69	

Other versions

Electromechanical pressure switches with alternative tapped cable entries and/or fluid entries: ISO, NPT, etc. Please consult our Customer Care Centre.

Power circuits	
Water	Air, water
Regulation between 2 thresholds (adjustable differential)	



Fresh water, sea water (0...+ 70°C)			Air, fresh water, sea water (0...+ 70°C)
4.6 bar (66.7 psi)	7 bar (101.5 psi)	10.5 bar (152.3 psi)	6 bar, 12 bar and 25 bar (87 psi, 174 psi and 362.5 psi)
72 x 77 x 106	72 x 73 x 102		57 x 78 x 97.5
Internal screws			
2 NC snap action			2 NC or 3 NC snap action
IP 20/IP 65			IP 54 or IP 65, depending on model
2 cable entries with grommet or 2 cable entries with n° 13 cable gland			2 entries incorporating n° 13 cable gland or without cable gland, depending on mode
G 1/4 or R 1/4 (female or male)			G 1/4, G 3/8 or 4 x G 1/4 (female), depending on model
FSG●	FYG22	FYG32	XMP
71 to 73			74 to 84

Electromechanical pressure and vacuum switches

XM range

Function

The function of pressure and vacuum switches is the control or regulation of pressure or vacuum levels in hydraulic or pneumatic systems.

They transform the pressure change into a digital electrical signal when the preset switching points are reached.

Switches for power circuits

Switches with power electrical contacts, either 2-pole or 3-pole, designed for direct switching of single-phase or 3-phase motors (pumps, compressors, etc.).

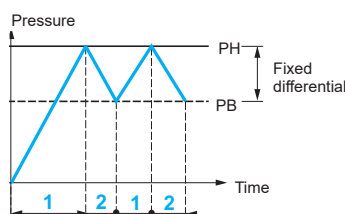
Switches for control circuits

Switches with standard electrical contacts, designed for control of contactors, relays, power valves, PLC inputs, etc.

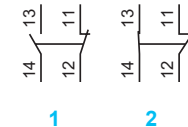
Pressure switch operating principle

Detection of a single threshold

The switches for detection of a single threshold (fixed differential) have a single adjustable setting point (PH). The differential between the high and low points (PH - PB) depends upon the natural characteristics of the switch. It is not adjustable.



Example: contact schematics of XMLA

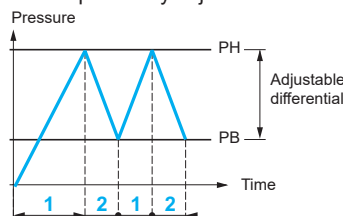


— Adjustable value
--- Non adjustable value

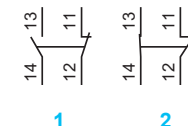
PH = High point
PB = Low point

Regulation between 2 thresholds

The switches for regulation between 2 thresholds (adjustable differential) have both a high point setting (PH) and a low point setting (PB). Both of these points can be independently adjusted.



Example: contact schematics of XMLB

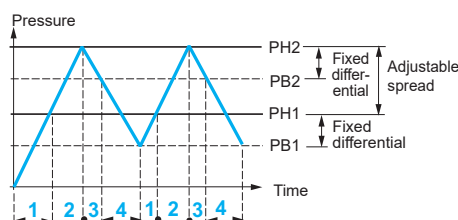


— Adjustable value

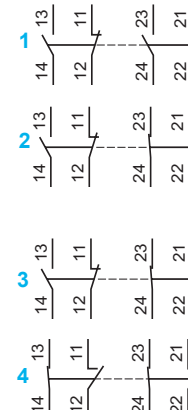
PH = High point
PB = Low point

Detection of 2 thresholds

The dual stage switches, for detection at each threshold, have an adjustable high point setting for each stage (PH1 and PH2). Both of these points can be independently adjusted. For both stages, the differential between the high point and the low point (PH1 - PB1 and PH2 - PB2) depends upon the natural characteristics of the switch. It is not adjustable.



Example: contact schematics of XMLD



— Adjustable value
--- Non adjustable value

PH = High point
PB = Low point

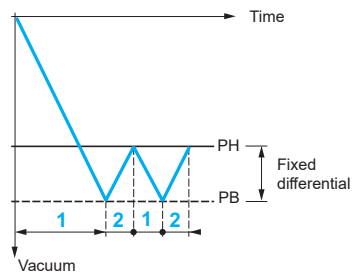
Electromechanical pressure and vacuum switches

XM range

Vacuum switch operating principle

Detection of a single threshold

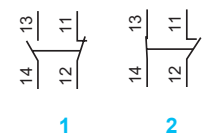
The switches for detection of a single threshold (fixed differential) have a single adjustable setting point (PH). The differential between the high and low points (PH - PB) depends upon the natural characteristics of the switch. It is not adjustable.



— Adjustable value
--- Non adjustable value

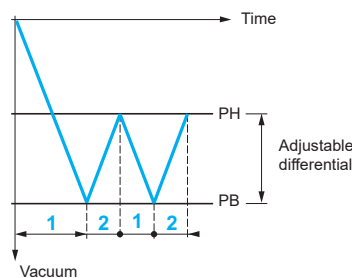
PH = High point
PB = Low point

Example: contact schematics of XMLA



Regulation between 2 thresholds

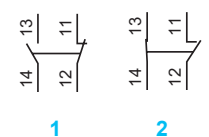
The switches for regulation between 2 thresholds (adjustable differential) have both a high point setting (PH) and a low point setting (PB). Both of these points can be independently adjusted.



— Adjustable value

PH = High point
PB = Low point

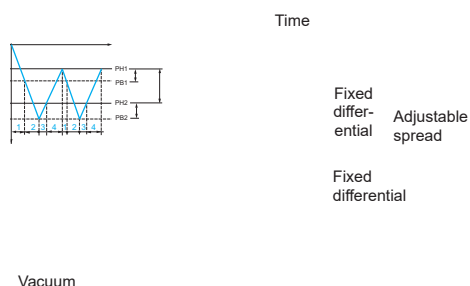
Example: contact schematics of XMLB



Detection of 2 thresholds

The dual stage switches, for detection at each threshold, have an adjustable high point setting for each stage (PH1 and PH2). Both of these points can be independently adjusted.

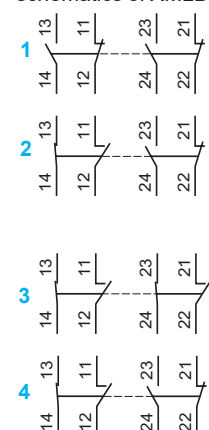
For both stages, the differential between the high point and the low point (PH1 - PB1 and PH2 - PB2) depends upon the natural characteristics of the switch. It is not adjustable.



— Adjustable value
--- Non adjustable value

PH = High point
PB = Low point

Example: contact schematics of XMLD



Electromechanical pressure and vacuum switches

XM range

Terminology

Operating range

The difference between the minimum low point (PB) and the maximum high point (PH) setting values.

Size

Pressure switches and vacuum-pressure switches (vacu-pressure switches)
Maximum value of the operating range.

Vacuum switches

Minimum value of the operating range.

Switching point on rising pressure (PH)

Pressure switches

The upper pressure setting at which the pressure switch will actuate the contacts on rising pressure.

Vacuum switches

The lower vacuum setting at which the vacuum switch will reset the contacts on rising pressure.

Switching point on falling pressure (PB)

The pressure at which the switch output changes state on falling pressure.

Switches with fixed differential

The lower point (PB) is not adjustable and is entirely dependent on the high point setting (PH) and the natural differential of the switch.

Switches with adjustable differential

The adjustable differential enables the independent setting of the lower point (PB).

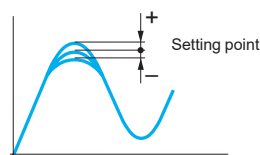
Differential

The difference between the switching point on rising pressure (PH) and the switching point on falling pressure (PB).

Spread

For dual stage switches, the spread indicates the difference between the 2 switching points on rising pressure (PH2 and PH1) and, for vacuum switches, the difference between the 2 switching points on falling pressure (PB2 and PB1).

Accuracy (switches with setting scale)



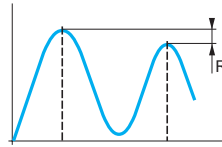
The tolerance between the point at which the switch actuates its contacts and the value indicated on the setting scale. Where very high setting accuracy is required (initial installation of the product), it is recommended to use separate measuring equipment (pressure gauge, etc.).

Electromechanical pressure and vacuum switches

XM range

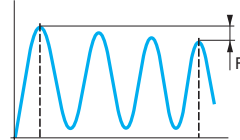
Terminology (continued)

Repeat accuracy (R)



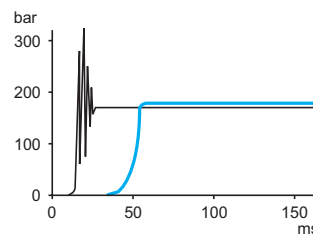
The tolerance between two consecutive switching operations.

Drift (F)



The tolerance of the switching point throughout the entire service life of the switch.

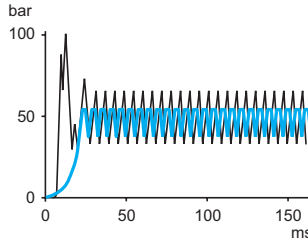
Accidental overpressure



This is an accidental pressure surge of very short duration (a few milliseconds).

If accidental overpressures occur and their duration is less than 50 milliseconds, the pressure damping device incorporated in the XML switches (sizes 10 bar and greater) will diminish the effect.

Example 1: with destructive pressure level.



Example 2: with destructive pressure level and destructive pressure oscillations.

— Without damping device
— With damping device

Maximum permissible pressure per cycle (Ps)

A pressure switch can withstand this pressure, without detrimental effect, on each cycle throughout its service life.

Its minimum value is at least equal to 1.25 times the switch size.

Maximum permissible accidental pressure

The maximum accidental pressure is at least equal to 2.25 times the switch size.

Destruction pressure

The maximum guaranteed pressure that the switch will withstand before its destruction, i.e. bursting, rupturing, component failure, etc.

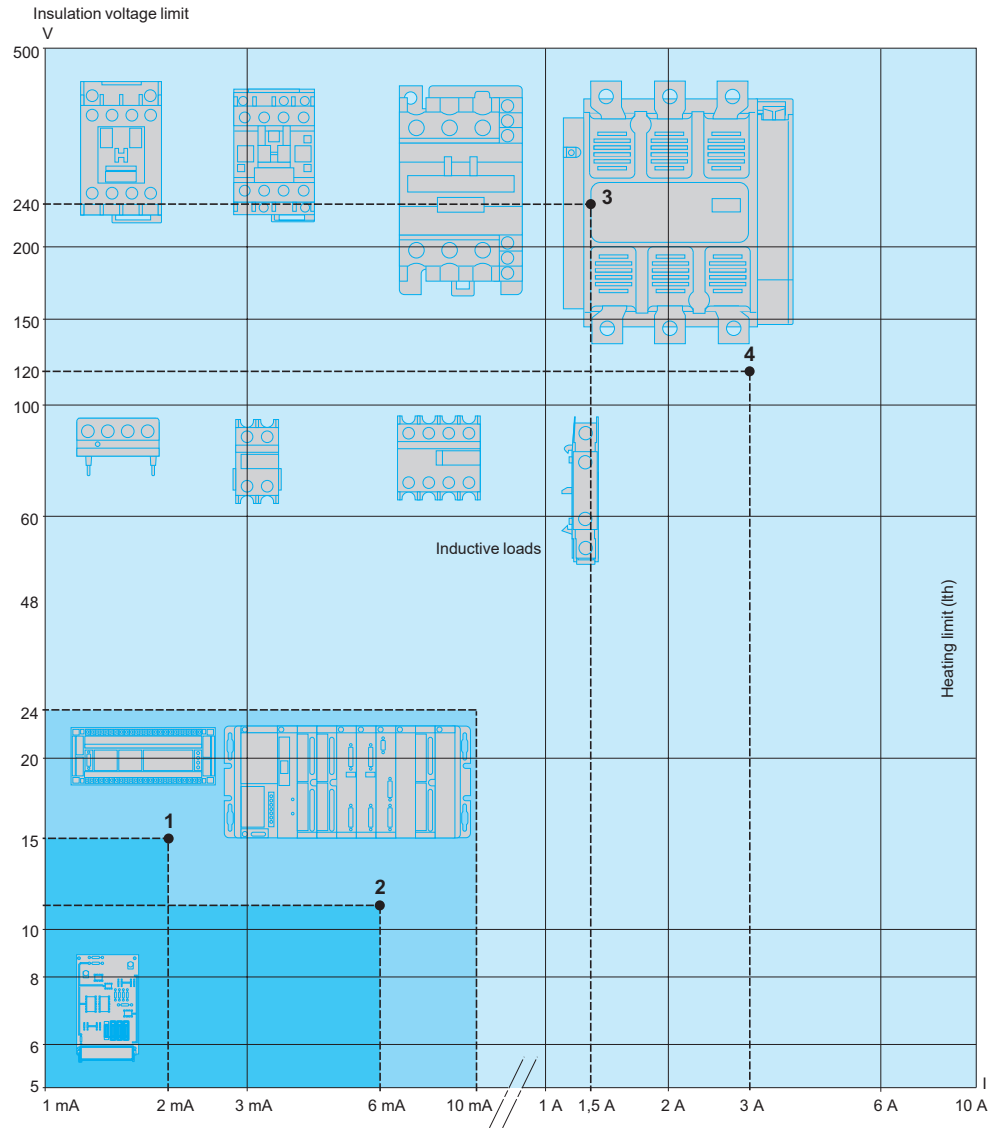
Its value is at least equal to 4.5 times the switch size.

Electromechanical pressure and vacuum switches

XM range

Application range of pressure and vacuum switches XML, XMA and XMX, for control circuits

On standard loads
Continuous duty, frequent switching.



- 1 Standard PLC input, type 1
- 2 Standard PLC input, type 2
- 3 Switching capacity conforming to IEC 60947-5-1, utilisation category AC-15, DC-13
B300 240 V 1.5 A
R300 250 V 0.1 A
- 4 Switching capacity conforming to IEC 60947-5-1, utilisation category AC-15, DC-13
B300 120 V 3 A
R300 125 V 0.22 A

PLC: Programmable Logic Controller

On small loads

The use of electromechanical pressure and vacuum switches with programmable logic controllers is becoming more predominant.
On small loads, the reliability of the switches maintain a failure rate of less than 1 for 100 million operating cycles.

Pressure switches	Application range		
XMLA XMLB XMLC XMLD XMx, XMA			
XMLG XMLK			

Electromechanical pressure and vacuum switches

XM range

Selection of switch size

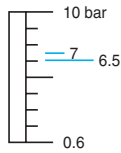
After establishing the type of switch required for the application (single threshold detection or regulation between 2 thresholds), the selection of its size will depend on the following criteria:

- ☐ the differential: difference between the high point (PH) and the low point (PB),
- ☐ the maximum pressure permissible per cycle,
- ☐ repeat accuracy, precision and minimum drift.

Examples of a fixed differential pressure switch selection, for detection of a single threshold

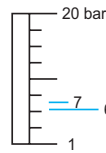
Main criterion: minimum differential

Example: for a selected high point (PH) of 7 bar

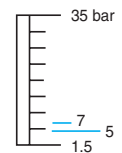


XMLA010●●●●●●
Differential = 0.5 bar

Select an XMLA010●●●●●● (the lowest size)



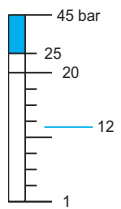
XMLA020●●●●●●
Differential = 1 bar



XMLA035●●●●●●
Differential = 2 bar

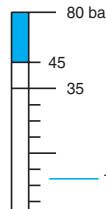
Main criterion: tolerance to overpressures

Example: for a selected high point (PH) of 12 bar



XMLA020●●●●●●
Permissible accidental overpressure = 45 bar

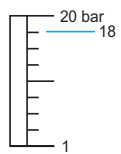
Select an XMLA035●●●●●● (the highest size)



XMLA035●●●●●●
Permissible accidental overpressure = 80 bar

Main criterion: repeat accuracy, precision and minimum drift

Example: for a selected high point (PH) of 18 bar



XMLA020●●●●●●

Adjustable from 1 to 20 bar

Select an XMLA035●●●●●●



XMLA035●●●●●●

As a general rule, working at the upper or lower limits of the operating range should be avoided.

Units of pressure conversion table

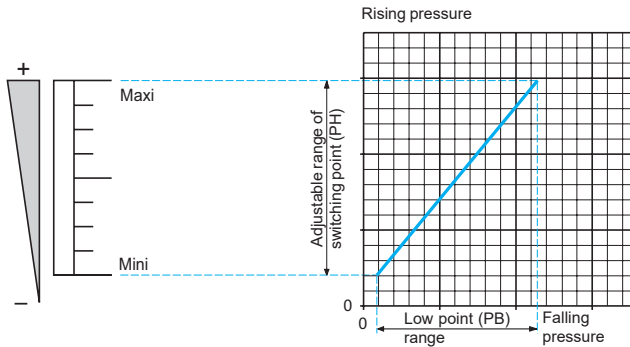
	psi	kg/cm ²	bar	atm	mm Hg (Torr)	mm H ₂ O	Pa
1 psi =	1	0.07031	0.06895	0.06805	51.71	703.7	6895
1 kg/cm ² =	14.22	1	0.98066	0.96784	735.55	10 000	98 066
1 bar =	14.50	1.0197	1	0.98695	750.06	10 197	10 ⁵
1 atm =	14.70	1.0333	1.0132	1	760.0	10 333	101 325
1 mm Hg = (Torr)	0.01934	1.360 x 10 ⁻³	1.333 x 10 ⁻³	1.316 x 10 ⁻³	1	13.59	133.3
1 mm H ₂ O =	1.421 x 10 ⁻³	10 ⁻⁴	~ 10 ⁻⁴	~ 10 ⁻⁴	0.07361	1	~ 9.80
1 Pa =	1.45 x 10 ⁻⁴	1.0197 x 10 ⁻⁵	10 ⁻⁵	9.8695 x 10 ⁻⁶	7.5 x 10 ⁻³	0.10197	1

Example: 1 bar = 14.50 psi = 10⁵ Pa

Electromechanical pressure and vacuum switches

Fixed differential switches, for detection of a single threshold

Adjustment range of the high point

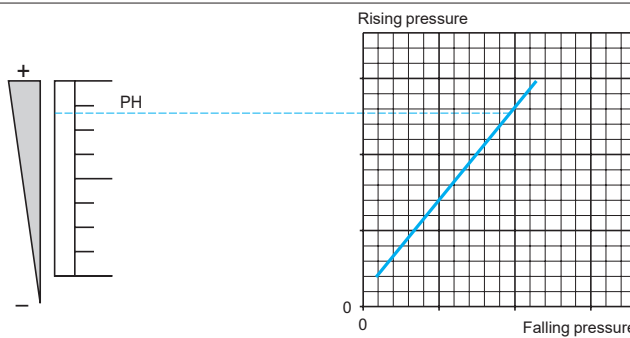


Defined by the difference between the minimum and maximum high point (PH) setting values.

For a high set point (PH), the lower point (PB) is fixed and cannot be adjusted.

For a low set point (PB1 or PB2), the higher point (PH1 or PH2) is fixed and cannot be adjusted.

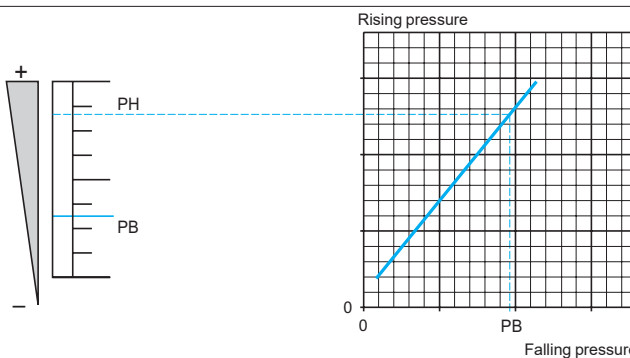
Switching point on rising pressure (PH)



The upper pressure setting at which the pressure or vacuum switch will actuate the contacts on rising pressure.

Adjustable throughout the range on rising pressure.

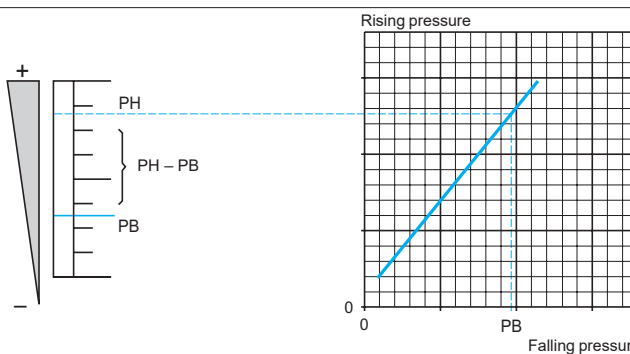
Switching point on falling pressure (PB)



The pressure at which the switch contact changes state on falling pressure.

The lower point (PB) is not adjustable and is entirely dependent on the high point setting (PH) and the natural differential of the switch.

Differential

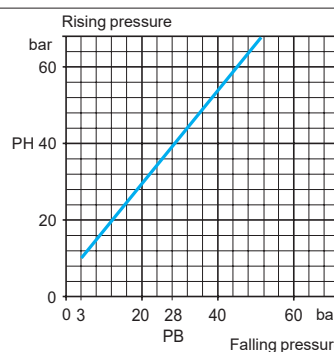


$PH - PB = \text{natural differential}$

The difference between the switching point on rising pressure (PH) and the switching point on falling pressure (PB).

This point is not adjustable and therefore, the value of the differential is fixed. It is the natural differential of the switch (contact differential, friction, etc.).

Example



■ Consider a switching point on rising pressure (PH) of 40 bar (set value at which the contact will change state on rising pressure).

■ It can be seen that the switching point on falling pressure (PB) is 28 bar (fixed value at which the contact will return to its original state).

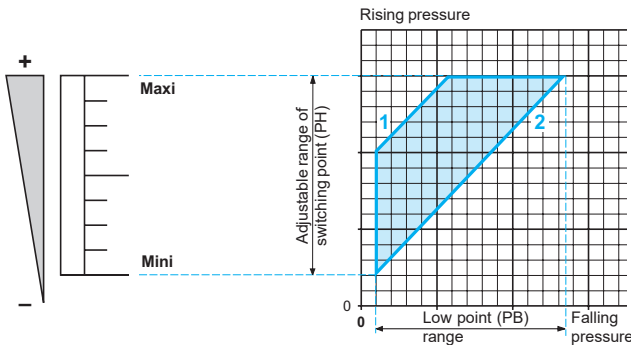
Conclusion:

□ the differential will be $40 - 28 = 12$ bar.

Electromechanical pressure and vacuum switches

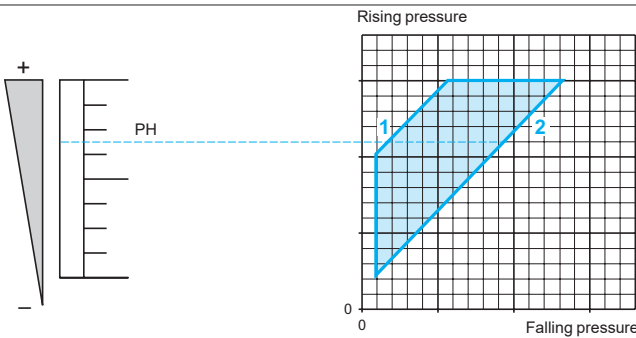
Adjustable differential switches, for regulation between 2 thresholds

Adjustment range of the high point



Defined by the difference between the minimum and maximum high point (PH) setting values.

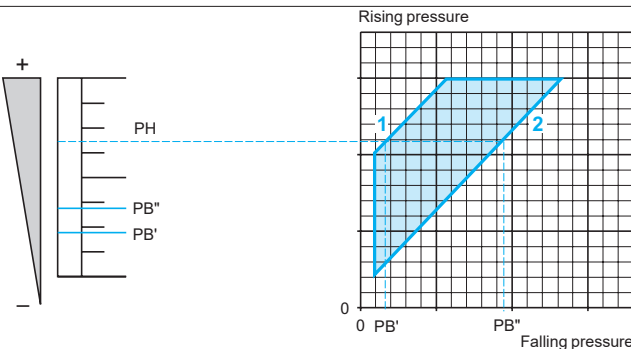
Switching point on rising pressure (PH)



The upper pressure setting at which the pressure or vacuum switch will actuate the contacts on rising pressure.

Adjustable throughout the range on rising pressure.

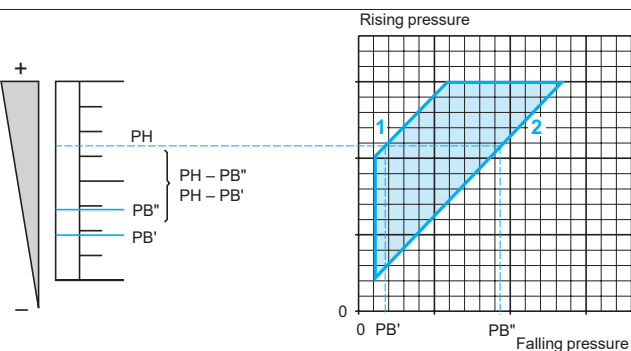
Switching point on falling pressure (PB)



The pressure at which the switch contact changes state on falling pressure.

The adjustable differential enables the independent setting of the lower point (PB).

Differential

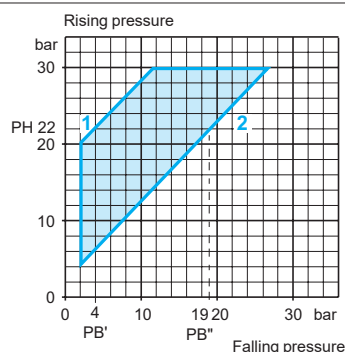


Low point < High point
 $PH - PB' = \text{natural differential}$
 $PH - PB'' = \text{minimum differential}$

The difference between the switching point on rising pressure (PH) and the switching point on falling pressure (PB).

Note: the low point can be set at any value between PB' and PB'' .

Example



- 1 Maximum differential
- 2 Minimum differential

■ Consider a switching point on rising pressure (PH) of 22 bar (set value at which the contact will change state on rising pressure).

■ It can be seen that the switching point on falling pressure (PB) can be between 4 and 19 bar inclusive (set value at which the contact will return to its original state).

Conclusion:

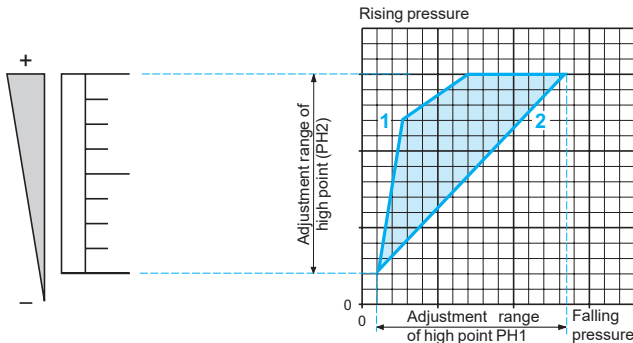
- the maximum differential will be: $22 - 4 = 18$ bar,
- the minimum differential will be: $22 - 19 = 3$ bar.

Operating curves (switching points on rising pressure)

Electromechanical pressure and vacuum switches

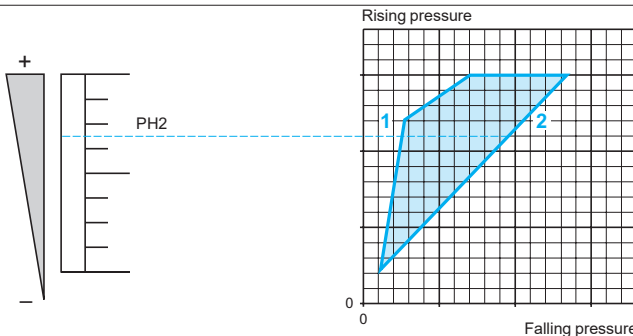
Dual stage, fixed differential switches, for detection at each threshold

Adjustment ranges of the switching points PH1 and PH2 on rising pressure



Defined by the difference between the minimum and maximum high point setting values of each stage (PH1 and PH2).

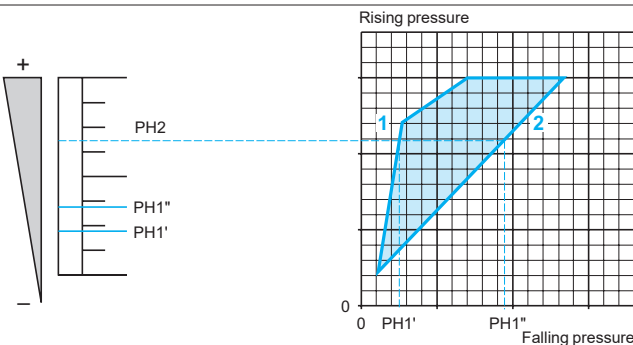
Switching point PH2 on rising pressure



The upper pressure setting at which the pressure or vacuum switch will actuate the contacts on rising pressure.

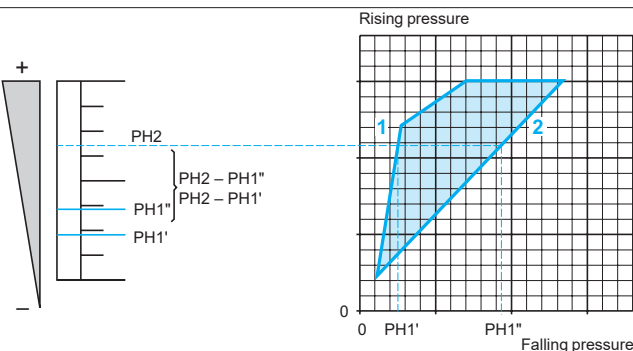
Adjustable throughout the range on rising pressure.

Switching point PH1 on rising pressure



The upper pressure setting at which the pressure or vacuum switch will actuate contact 1 on rising pressure.

Spread



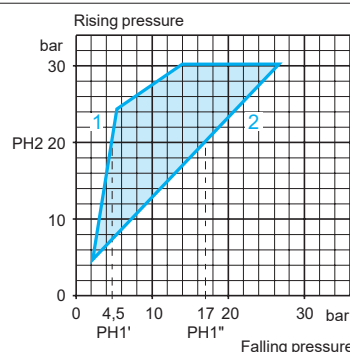
$PH1 < PH2$
 $PH2 - PH1' = \text{maximum spread}$
 $PH2 - PH1'' = \text{minimum spread}$

The difference between switching points PH2 and PH1 on rising pressure.

Note: switching point PH1 can be set at any value between PH1' and PH1''.

Example:
Determining switching points on rising pressure for the 2 stages

- 1 Maximum spread
- 2 Minimum spread



■ Consider a 2nd stage switching point on rising pressure (PH2) of 20 bar (set value at which contact 2 will change state on rising pressure).

■ It can be seen that the 1st stage switching point (PH1) can be set between 4.5 and 17 bar on rising pressure.

Conclusion:

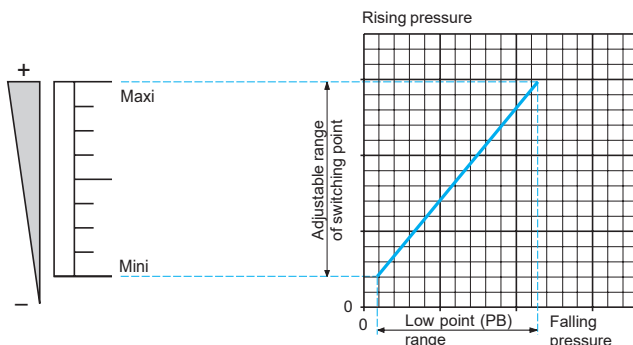
- the maximum spread will be:
 $20 - 4.5 = 15.5 \text{ bar}$,
- the minimum spread will be:
 $20 - 17 = 3 \text{ bar}$.

Operating curves (switching points on falling pressure)

Electromechanical pressure and vacuum switches

Dual stage, fixed differential switches, for
detection at each threshold

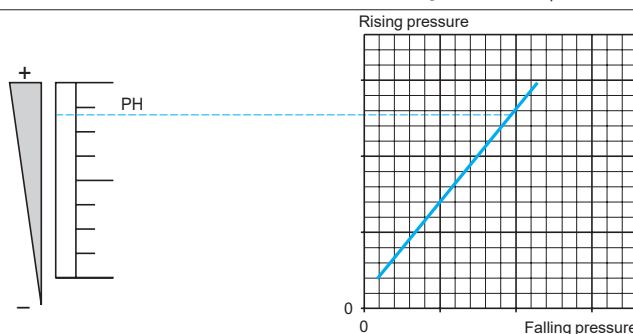
Adjustment
range of
high point
(PH1 or PH2)



Defined by the difference between the minimum and maximum high point (PH1 or PH2) setting values for each stage.

For a high set point (PH), the lower point (PB) is fixed and cannot be adjusted.
For a low set point (PB1 or PB2), the higher point (PH1 or PH2) is fixed and cannot be adjusted.

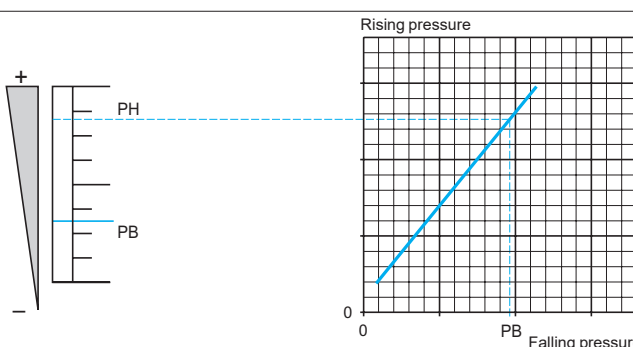
Switching
point on
rising
pressure
(PH1 or PH2)



The upper pressure setting at which the pressure or vacuum switch will actuate the contact, for each stage, on rising pressure.

Adjustable throughout the range on rising pressure.

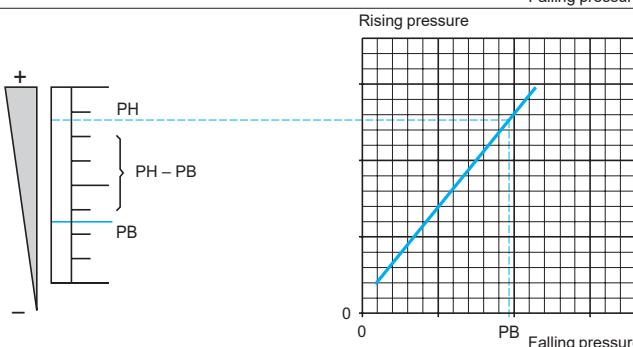
Switching
point on
falling
pressure
(PB1 or PB2)



The pressure at which the switch contact changes state, for each stage, on falling pressure.

The lower point (PB) is not adjustable and is entirely dependent on the high point setting (PH) and the natural differential of the switch.

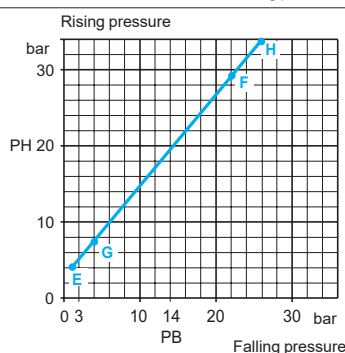
Differential



$PH - PB = \text{natural differential}$
The difference between the switching point on rising pressure (PH) and the switching point on falling pressure (PB), for each stage.

This point is not adjustable and therefore, the value of the differential is fixed.
It is the natural differential of the switch (contact differential, friction, etc.), for each of its 2 stages.

Example:
stage 1 =
segment EF
stage 2 =
segment GH



For stage 2 (segment GH):

■ Consider a switching point on rising pressure (PH2) of 20 bar (set value at which contact 2 will change state on rising pressure).

■ It can be seen that the switching point on falling pressure (PB2) is 14 bar (fixed value at which contact 2 will return to its original state).

Conclusion:
for stage 2, the differential will be:
 $20 - 14 = 6 \text{ bar}$.

Repeat the same procedure for stage 1 (segment EF).

- 1 Maximum spread
- 2 Minimum spread

Electromechanical pressure and vacuum switches

XM range

XML switches for control circuits

Presentation

XML pressure and vacuum switches are designed for use in control circuits. They are used to control the pressure of hydraulic oils, fresh water, sea water, air, steam, corrosive fluids or viscous products, up to 500 bar.

XMLA pressure and vacuum switches have a fixed differential and are used for detection of a single threshold. They incorporate 1 CO single-pole contact.

XMLB pressure and vacuum switches have an adjustable differential and are used for regulation between 2 thresholds. They incorporate 1 CO single-pole contact.

XMLC pressure and vacuum switches have an adjustable differential and are used for regulation between 2 thresholds. They incorporate 2 CO single-pole contacts.

XMLD pressure and vacuum switches are dual stage switches, each stage with a fixed differential, and are used for detection at each threshold. They incorporate 2 CO single-pole contacts (one per stage).

Setting

When setting XML pressure and vacuum switches, adjust the switching point on rising pressure (PH) first and then the switching point on falling pressure (PB).

XMLA pressure and vacuum switches with fixed differential

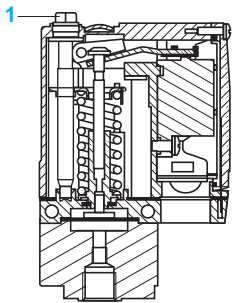
Switching point on rising pressure

The switching point on rising pressure (PH) is set by adjusting the red screw **1**.

Switching point on falling pressure

The switching point on falling pressure (PB) is not adjustable.

The difference between the tripping and resetting points of the contact is the natural differential of the switch (contact differential, friction, etc.).



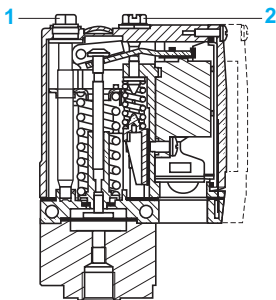
XMLB and XMLC pressure and vacuum switches with adjustable differential

Switching point on rising pressure

The switching point on rising pressure (PH) is set by adjusting the red screw **1**.

Switching point on falling pressure

The switching point on falling pressure (PB) is set by adjusting the green screw **2**.



XMLD dual stage pressure and vacuum switches with fixed differential for each threshold

Switching point on rising pressure of stage 1 and stage 2

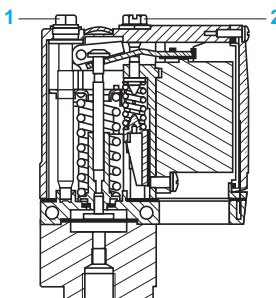
The first stage switching point on rising pressure (PH1) is set by adjusting the red screw **1**.

The second stage switching point on rising pressure (PH2) is set by adjusting the blue screw **2**.

Switching point on falling pressure

The switching points on falling pressure (PB1 and PB2) are not adjustable.

The difference between the tripping and resetting points of each contact is the natural differential of the switch (contact differential, friction, etc.).



Electromechanical pressure and vacuum switches

XM range

XML switches for control circuits

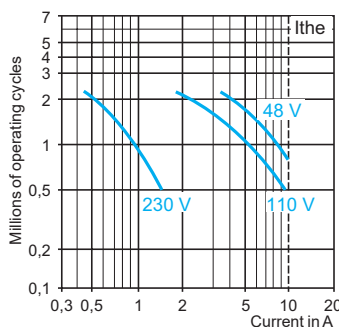
Environment characteristics		
Conformity to standards		CE, IEC/EN 60947-5-1, UL 508, CSA C22-2 no. 14
Product certifications	All products	UL, CSA, EAC
	XMLA and XMLB	CCC
Protective treatment		Standard version "TC". Special version "TH"
Ambient air temperature	°C	For operation: -25...+70. For storage: -40...+70
Fluids or products controlled		Hydraulic oils, air, fresh water, sea water Steam, corrosive fluids, viscous products, depending on model
Materials	Case	zinc alloy
	Component materials in contact with fluid	see page 55
Operating position		All positions
Vibration resistance	gn	4 (30...500 Hz) conforming to IEC 60068-2-6 except XMLL35 , XML001 and XMLBM03 : 2
Shock resistance	gn	50 conforming to IEC 60068-2-27 except XMLL35 , XML001 , and XMLBM03 : 30
Electric shock protection		Class I conforming to IEC 1140, IEC 536 and NF C 20-030
Degree of protection	Screw terminal models	IP 66 conforming to IEC/EN 60529
	Connector models	IP 65 conforming to IEC/EN 60529
Operating rate	Op. cycles/min	Piston version switches: ≤ 60 (for temperatures > 0 °C) Diaphragm version switches: ≤ 120 (for temperatures > 0 °C)
Repeat accuracy		< 2%
Fluid connection		G 1/4 (BSP female) conforming to NF E 03-005, ISO 228 or 1/4"-18 NPTF For sizes ≥ 300 bar, use the gasket supplied with the product. This gasket is also available as a separate part, reference XMLZL010 .
Electrical connection	Screw terminal models	ISO M20 x 1.5 or 1/2" NPT tapped entry For an entry tapped for no.13 (DIN Pg 13.5) cable gland, replace the last number of the reference with 1 (for example, XMLA010A2S12 becomes XMLA010A2S11)
	Connector models	EN 175301-803-A (ex-DIN 43650) connector

Contact block characteristics		
Rated operational characteristics		~ AC-15, B300 (Ue = 240 V, Ie = 1.5 A; Ue = 120 V, Ie = 3 A) --- DC-13; R300 (Ue = 250 V, Ie = 0.1 A), conforming to IEC 60947-5-1 Appendix A, EN 60947-5-1
Rated insulation voltage		Ui = 500 V conforming to IEC/EN 60947-1 Ui = 300 V conforming to UL 508, CSA C22-2 no. 14
Rated impulse withstand voltage		U imp = 6 kV conforming to IEC/EN 60947-1
Type of contacts		Silver tipped contacts: 1 CO single-pole contact (4 terminals), snap action 2 CO single-pole contacts (8 terminals), simultaneous, snap action 2 CO single-pole contacts (8 terminals), staggered, snap action
Resistance across terminals	mΩ	< 25 conforming to NF C 93-050 method A or IEC 255-7 category 3
Terminal referencing		Conforming to CENELEC EN 50013
Short-circuit protection		10 A cartridge fuse type gG (gl)
Connection		Screw clamp terminals. Minimum clamping capacity: 1 x 0.5 mm ² /AWG 20 Maximum clamping capacity: 2 x 2.5 mm ² /AWG 14

Electrical durability
Conforming to IEC/EN 60947-5-1 Appendix C
Utilisation categories AC-15 and DC-13

Operating rate: 3600 operating cycles/hour
Load factor: 0.5

XMLA and XMLB
AC supply ~ 50/60 Hz
~ Inductive circuit, Ithe = 10 A

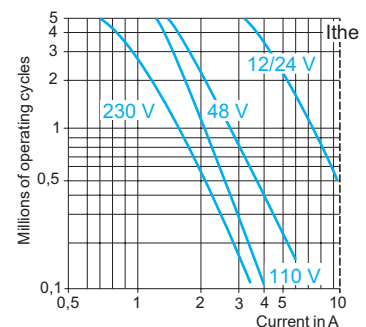


DC supply ---

Power broken in W
for 1 million operating cycles

Voltage V	24	48	120
~ W	31	29	26

XMLC and XMLD
AC supply ~ 50/60 Hz
~ Inductive circuit, Ithe = 10 A



DC supply ---

Power broken in W for 5 million operating cycles

Voltage V	24	48	120
~ W	10	7	4

Electromechanical vacuum switches
XM range, XML switches
Size - 1 bar (- 14.5 psi)
Fixed differential, for detection of a single threshold
Switches with 1 CO single-pole contact

XMLA vacuum switches

With setting scale



Adjustable range of switching point (PB) (Falling pressure)	- 0.28...- 1 bar (- 4.06...- 14.5 psi)
Electrical connection	Terminals
Fluid connection	G 1/4 (female)

References (1)

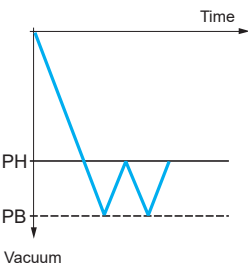
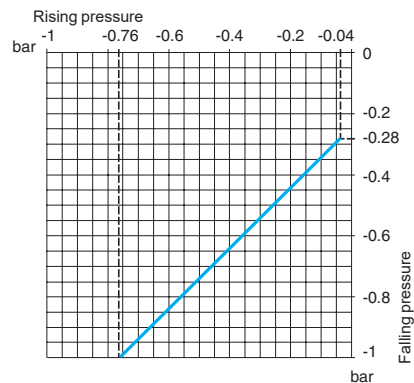
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLAM01V2S12
Weight (kg)		0.715

Complementary characteristics not shown under general characteristics (page 17)

Natural differential (add to PB to give PH)	At low setting (3)	0.24 bar (3.48 psi)
	At high setting (3)	0.24 bar (3.48 psi)
Maximum permissible pressure	Per cycle	5 bar (72.5 psi)
	Accidental	9 bar (130.5 psi)
Destruction pressure		18 bar (261 psi)
Mechanical life		3 x 10 ⁶ operating cycles
Connection		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Vacuum switch type		Diaphragm

- (1) For 1 entry tapped for no .13 cable gland, replace S12 with S11 (for example, XMLAM01V2S12 becomes XMLAM01V2S11) .
(2) For component materials of units in contact with the fluid, see page 57.
(3) Deviation of the differential at low and high setting points for switches of the same size:
± 0.05 bar (± 0.72 psi) .

Operating curves



- Adjustable value
--- Non adjustable value

Connection

Terminal model



Other versions

For vacuum switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical vacuum switches

XM range, XML switches

Size - 1 bar (- 14.5 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 1 CO single-pole contact

XMLB vacuum switches

With setting scale



Adjustable range of switching point (PB) (Falling pressure)	- 0.14...- 1 bar (- 2.03...- 14.5 psi)	
Electrical connection	DIN connector	Terminals
Fluid connection	G 1/4 (female)	G 1/4 (female)

References (1)

Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLBM02V2C11	XMLBM02V2S12
Weight (kg)		1.015	1.030

Complementary characteristics not shown under general characteristics (page 17)

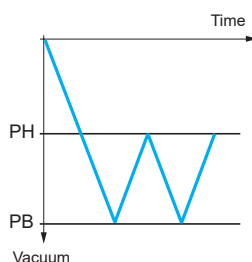
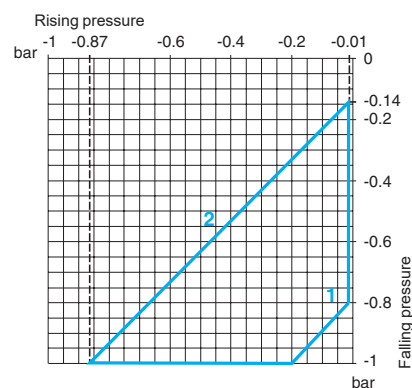
Possible differential (add to PB to give PH)	Min. at low setting (3)	0.13 bar (1.88 psi)
	Min. at high setting (3)	0.13 bar (1.88 psi)
	Max. at high setting	0.8 bar (11.6 psi)
Maximum permissible pressure	Per cycle	5 bar (72.5 psi)
	Accidental	9 bar (130.5 psi)
Destruction pressure		18 bar (261 psi)
Mechanical life		3 x 10 ⁶ operating cycles
Connection	EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 52	
	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	
Vacuum switch type	Diaphragm	

(1) For 1 entry tapped for no. 13 cable gland, replace **S12** with **S11** (for example, **XMLBM02V2S12** becomes **XMLBM02V2S11**).

(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low and high setting points for switches of the same size:
± 0.02 bar (± 0.29 psi).

Operating curves



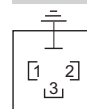
Connection

Terminal model



Connector model

Vacuum switch connector pin view



1 → 11 and 13
2 → 12
3 → 14

- 1 Maximum differential
- 2 Minimum differential

— Adjustable value

Other versions

For vacuum switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

XMLB pressure switches

With setting scale



Adjustable range of switching point (PH) (Rising pressure)	45...350 mbar (0.65...5.07 psi)
Electrical connection	Terminals
Fluid connection	1/4"-18 NPTF (female)

References (1)

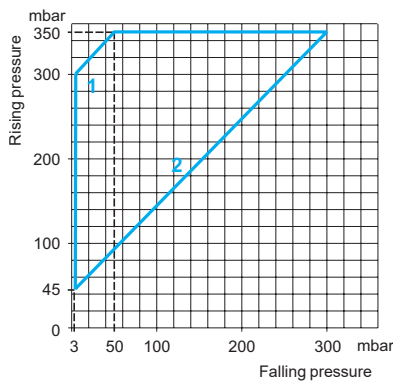
Fluids controlled (2)	Hydraulic oils, air, up to + 160 °C	XMLBL35R2S13
Weight (kg)		2.575

Complementary characteristics not shown under general characteristics (page 17)

Possible differential (subtract from PH to give PB)	Min. at low setting (3)	42 mbar (0.60 psi)
	Min. at high setting (4)	50 mbar (0.72 psi)
	Max. at high setting	300 mbar (4.35 psi)
Maximum permissible pressure	Per cycle	1.25 bar (18.12 psi)
	Accidental	2.25 bar (32.62 psi)
Destruction pressure		4.5 bar (65.25 psi)
Mechanical life		4 million operating cycles
Connection		1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm

- (1) For 1 entry tapped for no .13 cable gland, replace **S12** with **S11** (for example, **XMLBL35R2S12** becomes **XMLBL35R2S11**).
- (2) For component materials of units in contact with the fluid, see page 57.
- (3) Deviation of the differential at low setting point for switches of the same size:
- 8 mbar, + 3 mbar (- 0.12 psi, + 0.04 psi).
- (4) Deviation of the differential at high setting point for switches of the same size:
± 8 mbar (± 0.11 psi).

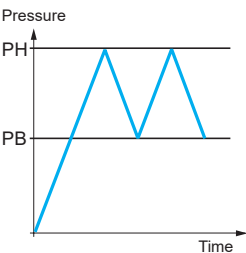
Operating curves



- 1 Maximum differential
2 Minimum differential

Other versions

Connection
Terminal model



For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 350 mbar (5.07 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 1 CO single-pole contact

XMLB pressure switches	30 bar (435 psi) overpressure With setting scale
------------------------	---



Adjustable range of switching point (PH) (Rising pressure)	42...330 mbar (0.61...4.78 psi)
Electrical connection	Terminals
Fluid connection	G 1/4 (female)

References (1)

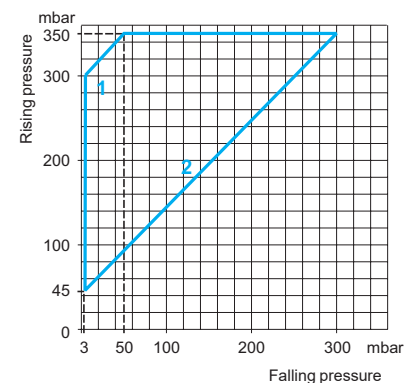
Fluids controlled (2)	Hydraulic oils, air, up to + 160 °C	XMLBS35R2S12
Weight (kg)		3.500

Complementary characteristics not shown under general characteristics (page 17)

Possible differential (subtract from PH to give PB)	Min. at low setting (3)	33 mbar (0.48 psi)
	Min. at high setting (4)	58 mbar (0.84 psi)
	Max. at high setting	250 mbar (3.62 psi)
Maximum permissible pressure	Per cycle	30 bar (435 psi)
	Accidental	37.5 bar (543.75 psi)
Destruction pressure		67.5 bar (978.75 psi)
Mechanical life		2 million operating cycles
Cable entry for terminal models		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Connector type for connector models		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 52
Pressure switch type		Diaphragm

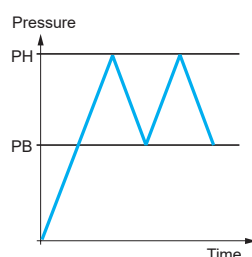
- (1) For 1 entry tapped for no. 13 cable gland, replace **S12** with **S11** (for example, **XMLBS35R1S12** becomes **XMLBS35R1S11**).
- (2) For component materials of units in contact with the fluid, see page 57.
- (3) Deviation of the differential at low setting point for switches of the same size:
- 8 mbar, + 3 mbar (- 0.12 psi, + 0.04 psi).
- (4) Deviation of the differential at high setting point for switches of the same size:
± 8 mbar (± 0.11 psi).

Operating curves



- 1 Maximum differential
2 Minimum differential

Other versions



— Adjustable value

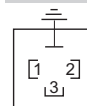
Connection

Terminal model



Connector model

Pressure switch connector pin view



- 1 → 11 and 13
2 → 12
3 → 14

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches
XM range, XML switches
Size 350 mbar (5.07 psi)
Adjustable differential, for regulation between 2 thresholds
Switches with 2 CO single-pole contacts

XMLC pressure switches

30 bar (435 psi) overpressure
With setting scale



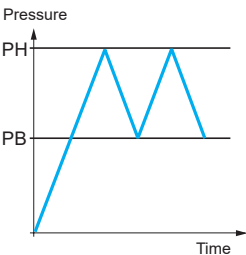
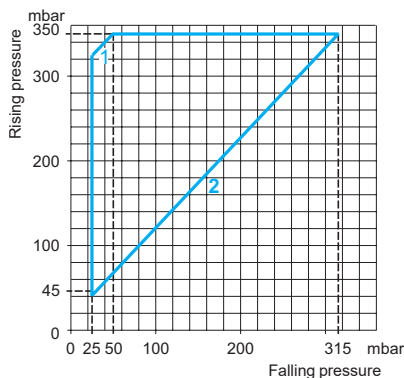
Adjustable range of switching point (PH) (Rising pressure)	42...330 mbar (0.61...4.78 psi)	
Electrical connection	Terminals	
Fluid connection	G 1/4 (female)	1/4"-18 NPTF (female)

References (1)			
Fluids controlled (2)	Hydraulic oils, air, up to + 160 °C	XMLCS35R2S12	XMLCS35R2S13
Weight (kg)		3.500	3.500

Complementary characteristics not shown under general characteristics (page 17)			
Possible differential (subtract from PH to give PB)	Min. at low setting (3)	40 mbar (0.58 psi)	
	Min. at high setting (3)	88 mbar (1.27 psi)	
	Max. at high setting	230 mbar (3.33 psi)	
Maximum permissible pressure	Per cycle	30 bar (435 psi)	
	Accidental	37.5 bar (543.75 psi)	
Destruction pressure		67.5 bar (978.75 psi)	
Mechanical life		2 million operating cycles	
Cable entry for terminal models		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	
Pressure switch type		Diaphragm	

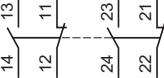
- (1) For 1 entry tapped for no .13 cable gland, replace **S12** with **S11** (for example, **XMLCL35R2S12** becomes **XMLCL35R2S11**) .
(2) For component materials of units in contact with the fluid, see page 57.
(3) Deviation of the differential at low setting point for switches of the same size:
 $\pm 20 \text{ mbar } (\pm 0.29 \text{ psi})$.

Operating curves



Connection

Terminal model



- 1 Maximum differential
2 Minimum differential

— Adjustable value

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 350 mbar (5.07 psi)

Dual stage, fixed differential, for detection at each threshold

Switches with 2 CO single-pole contacts

XMLD pressure switches

Without setting scale



Adjustable range of each switching point (Rising pressure)	2nd stage switching point (PH2)	58...350 mbar (0.84...5.07 psi)
	1st stage switching point (PH1)	33...325 mbar (0.48...4.71 psi)
Spread between 2 stages (PH2 - PH1)		25...310 mbar (0.36...4.50 psi)
Electrical connection		Terminals
Fluid connection		G 1/4 (female)

References (1)

Fluids controlled (2)	Hydraulic oils, air, up to + 160 °C	XMLDL35R1S12
Weight (kg)		2.575

Complementary characteristics not shown under general characteristics (page 17)

Natural differential (subtract from PH1/PH2 to give PB1/PB2)	At low setting (3)	30 mbar (0.44 psi)
	At high setting (4)	30 mbar (0.44 psi)
Maximum permissible pressure	Per cycle	1.25 bar (18.12 psi)
	Accidental	2.25 bar (32.62 psi)
Destruction pressure		4.5 bar (65.25 psi)
Mechanical life		4 million operating cycles
Cable entry for terminal models		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm

(1) For 1 entry tapped for no .13 cable gland, replace **S12** with **S11** (for example, **XMLDL35R1S12** becomes **XMLDL35R1S11**).

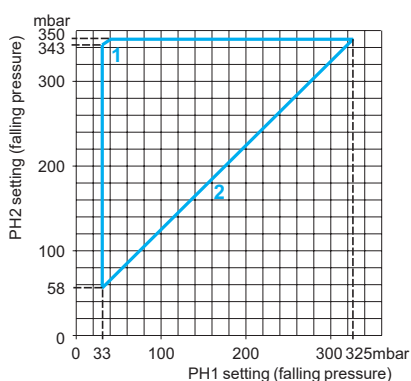
(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low setting point for switches of the same size:
± 10 mbar (± 0.15 psi).

(4) Deviation of the differential at high setting point for switches of the same size:
± 8 mbar (± 0.11 psi).

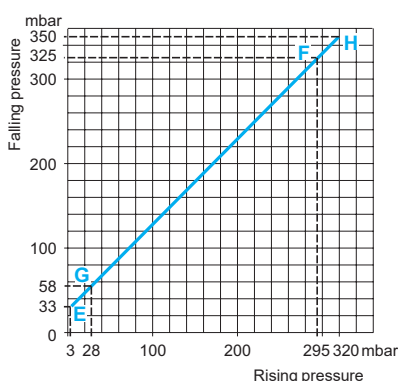
Operating curves

High setting tripping points of contacts 1 and 2

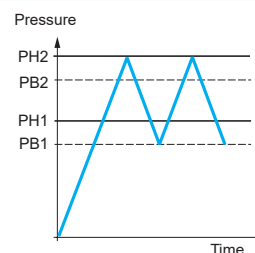


- 1 Maximum differential
- 2 Minimum differential

Natural differential of contacts 1 and 2



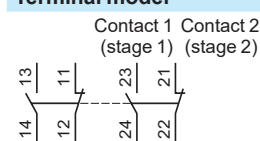
- EF Contact 1 (stage 1)
- GH Contact 2 (stage 2)



— Adjustable value
--- Non adjustable value

Connection

Terminal model



Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 1 bar (14.5 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 1 CO single-pole contact

XMLB pressure switches

With setting scale



Adjustable range of switching point (PH) (Rising pressure)	0.05...1 bar (0.72...14.5 psi)
Electrical connection	Terminals
Fluid connection	G 1/4 (female)

References (1)

Fresh water, corrosive fluids, up to + 160 °C	XMLB001S2S12
Weight (kg)	2.575

Complementary characteristics not shown under general characteristics (page 17)

Possible differential (subtract from PH to give PB)	Min. at low setting (3)	0.04 bar (0.58 psi)
	Min. at high setting (4)	0.06 bar (0.87 psi)
	Max. at high setting	0.75 bar (10.87 psi)
Maximum permissible pressure	Per cycle	1.25 bar (18.12 psi)
	Accidental	2.25 bar (32.62 psi)
Destruction pressure		4.5 bar (65.25 psi)
Mechanical life		4 x 10 ⁶ operating cycles
Connection		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm

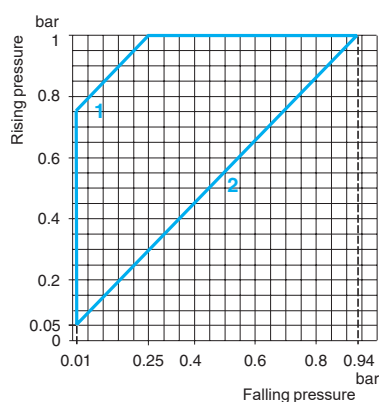
(1) For 1 entry tapped for no .13 cable gland, replace S12 with S11 (for example, XMLB001R2S12 becomes XMLB001R2S11) .

(2) For component materials of units in contact with the fluid, see page 57 .

(3) Deviation of the differential at low setting point for switches of the same size:
± 10 mbar (± 0.14 psi) .

(4) Deviation of the differential at high setting point for switches of the same size:
± 20 mbar (± 0.29 psi) .

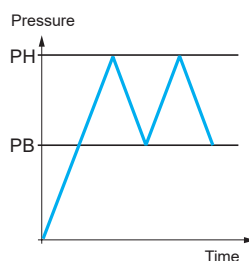
Operating curves



- 1 Maximum differential
2 Minimum differential

Other versions

Connection Terminal model



— Adjustable value

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 2.5 bar (36.25 psi)

Fixed differential, for detection of a single threshold

Switches with 1 CO single-pole contact

XMLA pressure switches

With setting scale



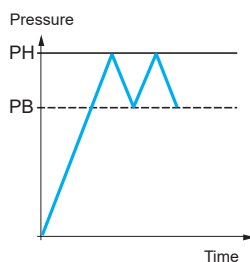
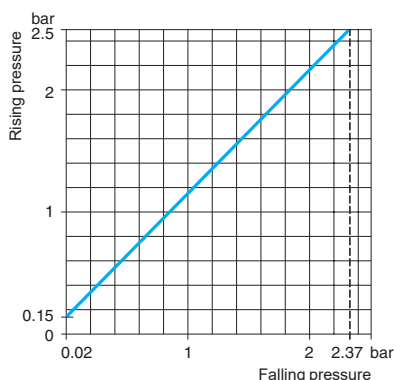
Adjustable range of switching point (PH) (Rising pressure)	0.15...2.5 bar (2.17...36.25 psi)	
Electrical connection	DIN connector	Terminals
Fluid connection	G 1/4 (female)	G 1/4 (female)
References (1)		
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	
Weight (kg)	1.010	0.995
Complementary characteristics not shown under general characteristics (page 17)		
Natural differential (subtract from PH to give PB)	At low setting (3)	0.13 bar (1.88 psi)
	At high setting (3)	0.13 bar (1.88 psi)
Maximum permissible pressure	Per cycle	5 bar (72.5 psi)
	Accidental	9 bar (130.5 psi)
Destruction pressure		18 bar (261 psi)
Mechanical life		8 x 10 ⁶ operating cycles
Connection	EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 52	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type	Diaphragm	

(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLA002A2S12 becomes XMLA002A2S11).

(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low and high setting points for switches of the same size:
± 0.03 bar (± 0.43 psi).

Operating curves



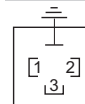
Connection

Terminal model



Connector model

Pressure switch connector pin view


1 → 11 and 13
2 → 12
3 → 14

— Adjustable value

--- Non adjustable value

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches
XM range, XML switches

Size 2.5 bar (36.25 psi)
Adjustable differential, for regulation between 2 thresholds
Switches with 1 CO single-pole contact

XMLB pressure switches

With setting scale



Adjustable range of switching point (PH) (Rising pressure)	0.3...2.5 bar (4.35...36.25 psi)
Electrical connection	Terminals
Fluid connection	G 1/4 (female)

References (1)

Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLB002A2S12
Weight (kg)		1.015

Complementary characteristics not shown under general characteristics (page 17)

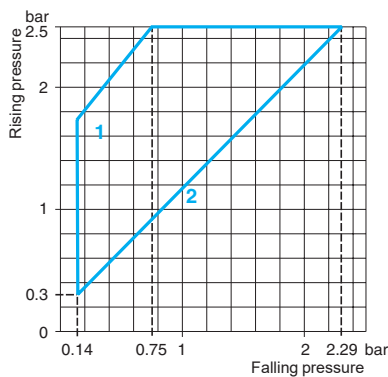
Possible differential (subtract from PH to give PB)	Min. at low setting (3)	0.16 bar (2.32 psi)
	Min. at high setting (3)	0.21 bar (3.04 psi)
	Max. at high setting	1.75 bar (25.37 psi)
Maximum permissible pressure	Per cycle	5 bar (72.5 psi)
	Accidental	9 bar (130.5 psi)
Destruction pressure		18 bar (261 psi)
Mechanical life		8 x 10 ⁶ operating cycles
Connection		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm

(1) For 1 entry tapped for no .13 cable gland, replace **S12** with **S11** (for example, **XMLB002A2S12** becomes **XMLB002A2S11**).

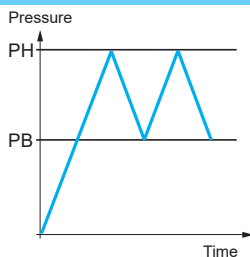
(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low and high setting points for switches of the same size:
- 0.03 bar, + 0.05 bar (- 0.43 psi, + 0.72 psi).

Operating curves



- 1 Maximum differential
2 Minimum differential



— Adjustable value

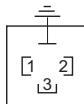
Connection

Terminal model



Connector model

Pressure switch connector pin view



- 1 → 11 and 13
2 → 12
3 → 14

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 2.5 bar (36.25 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 2 CO single-pole contacts

XMLC pressure switches	With setting scale	30 bar (435 psi) overpressure With setting scale
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Adjustable range of switching point (PH) (Rising pressure)	0.3...2.5 bar (4.35...36.25 psi)		
Electrical connection	Terminals		
Fluid connection	G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)

References (1)				
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 160 °C	XMLC002B2S12	XMLCS02B2S12	XMLCS02B2S13
Weight (kg)		0.995	3.500	3.500

Complementary characteristics not shown under general characteristics (page 17)				
Possible differential (subtract from PH to give PB)	Min. at low setting (3)	0.13 bar (1.89 psi)	0.1 bar (1.45 psi)	
	Min. at high setting (4)	0.17 bar (2.47 psi)	0.18 bar (2.61 psi)	
	Max. at high setting	2 bar (29 psi)	1.25 bar (18.12 psi)	
Maximum permissible pressure	Per cycle	5 bar (72.5 psi)	30 bar (435 psi)	
	Accidental	9 bar (130.5 psi)	37.5 bar (543.75 psi)	
Destruction pressure		18 bar (261 psi)	67.5 bar (978.75 psi)	
Mechanical life		8 x 10 ⁶ operating cycles	2 x 10 ⁶ operating cycles	
Cable entry for terminal models		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type	Diaphragm			

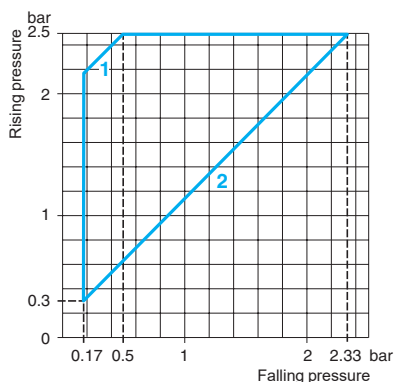
(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLC002B2S12 becomes XMLC002B2S11).

(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low setting point for switches of the same size:
± 0.02 bar (± 0.29 psi)

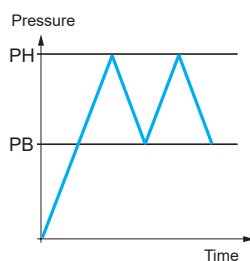
(4) Deviation of the differential at high setting point for switches of the same size:
± 0.03 bar (± 0.43 psi)

Operating curves



- 1 Maximum differential
2 Minimum differential

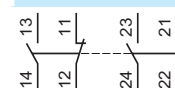
Other versions



— Adjustable value

Connection

Terminal model



For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 4 bar (58 psi)

Fixed differential, for detection of a single threshold

Switches with 1 CO single-pole contact

XMLA pressure switches

With setting scale



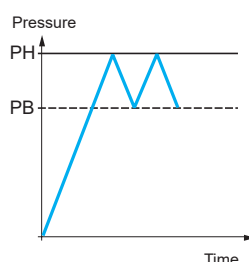
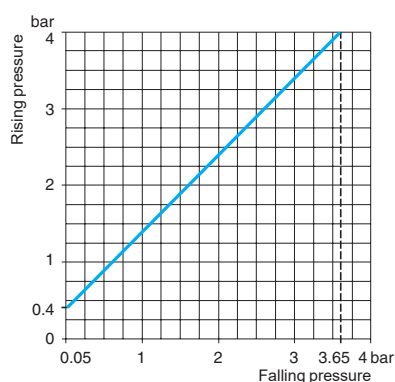
Adjustable range of switching point (PH) (Rising pressure)		0.4...4 bar (5.8...58 psi)		
Electrical connection		DIN connector	Terminals	
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)
References (1)				
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLA004A2C11	XMLA004A2S12	XMLA004A2S13
Weight (kg)		0.715	0.685	0.685
Complementary characteristics not shown under general characteristics (page 17)				
Natural differential (subtract from PH to give PB)	At low setting (3)	0.35 bar (5.07 psi)		
	At high setting (3)	0.35 bar (5.07 psi)		
Maximum permissible pressure	Per cycle	5 bar (72.5 psi)		
	Accidental	9 bar (130.5 psi)		
Destruction pressure		18 bar (261 psi)		
Mechanical life		8 x 10 ⁶ operating cycles		
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 52	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm		

(1) For 1 entry tapped for no .13 cable gland, replace S12 with S11 (for example, XMLA004A2S12 becomes XMLA004A2S11).

(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low and high setting points for switches of the same size:
± 0.03 bar (± 0.43 psi)

Operating curves



— Adjustable value
--- Non adjustable value

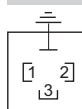
Connection

Terminal model



Connector model

Pressure switch connector pin view



1 → 11 and 13
2 → 12
3 → 14

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 4 bar (58 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 1 CO single-pole contact

XMLB pressure switches	With setting scale	30 bar (435 psi) overpressure With setting scale
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Adjustable range of switching point (PH) (Rising pressure)	0.25...4 bar (3.62...58 psi)			
Electrical connection	DIN connector	Terminals		
Fluid connection	G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)	G 1/4 (female)

References (1)				
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLB004A2C11	XMLB004A2S12	XMLB004A2S13
	Hydraulic oils, fresh water, air, up to + 160 °C	—	—	—
	Corrosive fluids, up to + 160 °C	XMLB004C2C11	—	—
Weight (kg)		1.030	1.015	1.015

Complementary characteristics not shown under general characteristics (page 17)				
Possible differential (subtract from PH to give PB)	Min. at low setting (3)	0.2 bar (2.9 psi)		0.15 bar (2.18 psi)
	Min. at high setting (4)	0.25 bar (3.62 psi)		0.34 bar (4.93 psi)
	Max. at high setting	2.4 bar (34.8 psi)		2.46 bar (35.67 psi)
Maximum permissible pressure	Per cycle	5 bar (72.5 psi)		30 bar (435 psi)
	Accidental	9 bar (130.5 psi)		37.5 bar (543.75 psi)
Destruction pressure		18 bar (261 psi)		67.5 bar (978.75 psi)
Mechanical life		8 x 10 ⁶ operating cycles		2 x 10 ⁶ operating cycles
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 52	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm		

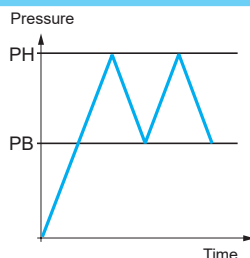
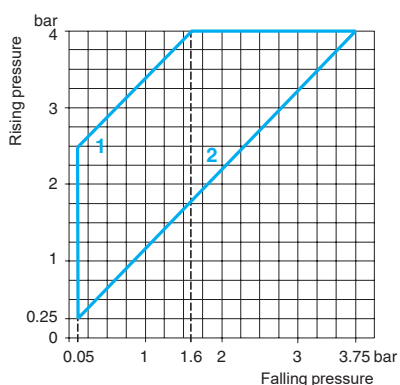
(1) For 1 entry tapped for no .13 cable gland, replace S12 with S11 (for example, XMLB004A2S12 becomes XMLB004A2S11).

(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low setting point for switches of the same size:
± 0.01 bar (± 0.14 psi).

(4) Deviation of the differential at high setting point for switches of the same size:
- 0.03 bar, + 0.05 bar (- 0.43 psi, + 0.72 psi).

Operating curves



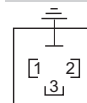
Connection

Terminal model



Connector model

Pressure switch connector pin view



1 → 11 and 13
2 → 12
3 → 14

- 1 Maximum differential
- 2 Minimum differential

— Adjustable value

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 4 bar (58 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 2 CO single-pole contacts

XMLC pressure switches	With setting scale	30 bar (435 psi) overpressure With setting scale
------------------------	--------------------	---



Adjustable range of switching point (PH) (Rising pressure)	0.3...4 bar (4.35...58 psi)	
Electrical connection	Terminals	
Fluid connection	G 1/4 (female)	G 1/4 (female)

References (1)			
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 160 °C	XMLC004B2S12	XMLCS04B2S12
Weight (kg)		0.685	3.500

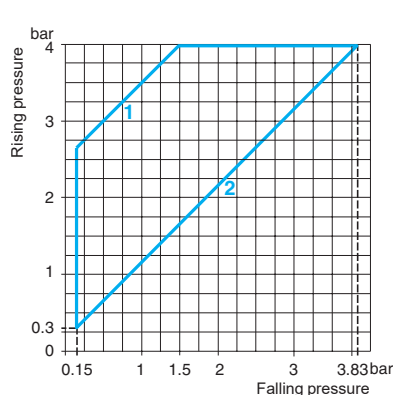
Complementary characteristics not shown under general characteristics (page 17)			
Possible differential (subtract from PH to give PB)	Min. at low setting (3)	0.15 bar (2.18 psi)	0.1 bar (1.45 psi)
	Min. at high setting (3)	0.17 bar (2.47 psi)	0.25 bar (3.62 psi)
	Max. at high setting	2.5 bar (36.25 psi)	2.20 bar (31.9 psi)
Maximum permissible pressure	Per cycle	5 bar (72.5 psi)	30 bar (435 psi)
	Accidental	9 bar (130.5 psi)	37.5 bar (543.75 psi)
Destruction pressure		18 bar (261 psi)	67.5 bar (978.75 psi)
Mechanical life		8 x 10 ⁶ operating cycles	2 x 10 ⁶ operating cycles
Cable entry for terminal models		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm	

(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLC004B2S12 becomes XMLC004B2S11).

(2) For component materials of units in contact with the fluid, see page 57.

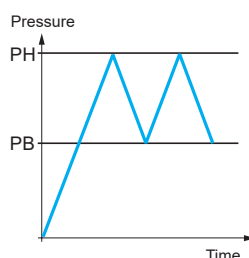
(3) Deviation of the differential at low and high setting points for switches of the same size:
± 0.02 bar (± 0.29 psi).

Operating curves	Connection
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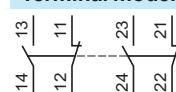
- 1 Maximum differential
- 2 Minimum differential

Other versions



— Adjustable value

Terminal model



For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 10 bar (145 psi)

Fixed differential, for detection of a single threshold

Switches with 1 CO single-pole contact

XMLA pressure switches

With setting scale



Adjustable range of switching point (PH) (Rising pressure)	0.6...10 bar (8.7...145 psi)		
Electrical connection	DIN connector	Terminals	Terminals
Fluid connection	G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)

References (1)

Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLA010A2C11	XMLA010A2S12	XMLA010A2S13
Weight (kg)		0.715	0.685	0.685

Complementary characteristics not shown under general characteristics (page 17)

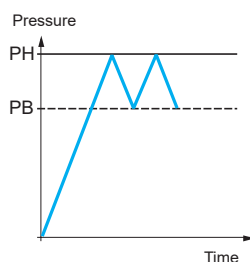
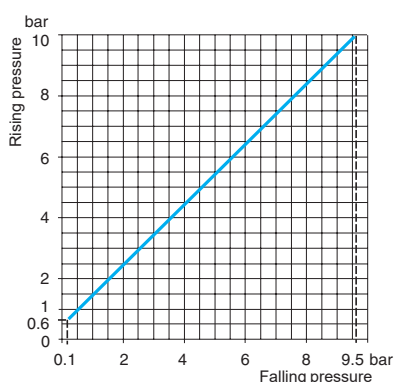
Natural differential (subtract from PH to give PB)	At low setting (3)	0.5 bar (7.25 psi)		
	At high setting (3)	0.5 bar (7.25 psi)		
Maximum permissible pressure	Per cycle	12.5 bar (181.25 psi)		
	Accidental	22.5 bar (326.25 psi)		
Destruction pressure		45 bar (652.5 psi)		
Mechanical life		5 x 10 ⁶ operating cycles		
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 52	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm		

(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLA010A2S12 becomes XMLA010A2S11).

(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low and high setting points for switches of the same size: ± 0.05 bar (± 0.72 psi)

Operating curves



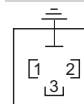
Connection

Terminal model



Connector model

Pressure switch connector pin view



1 → 11 and 13
2 → 12
3 → 14

— Adjustable value

--- Non adjustable value

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 10 bar (145 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 1 CO single-pole contact

XMLB pressure switches

With setting scale



Adjustable range of switching point (PH) (Rising pressure)		0.7...10 bar (10.15...145 psi)		
Electrical connection		DIN connector	Terminals	Terminals
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)
References (1)				
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLB010A2C11	XMLB010A2S12	XMLB010A2S13
	Corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLB010C2C11	—	—
Weight (kg)		0.735	0.705	0.705
Complementary characteristics not shown under general characteristics (page 17)				
Possible differential (subtract from PH to give PB)	Min. at low setting (3)	0.57 bar (8.26 psi)		
	Min. at high setting (4)	0.85 bar (12.32 psi)		
	Max. at high setting	7.5 bar (108.75 psi)		
Maximum permissible pressure	Per cycle	12.5 bar (181.25 psi)		
	Accidental	22.5 bar (326.25 psi)		
Destruction pressure		45 bar (652.5 psi)		
Mechanical life		5 x 10 ⁶ operating cycles		
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 52	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm		

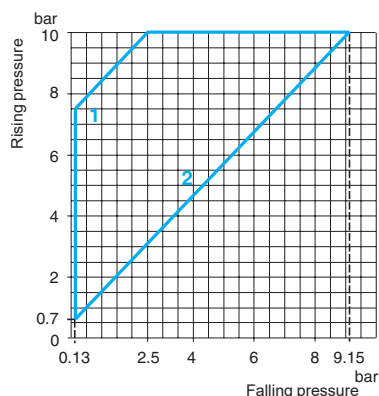
(1) For 1 entry tapped for no. 13 cable gland, replace **S12** with **S11** (for example, **XMLB010A2S12** becomes **XMLB010A2S11**).

(2) For component materials of units in contact with the fluid, see page 57.

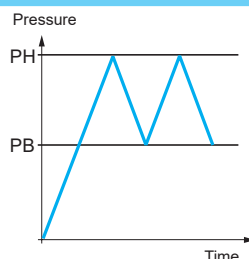
(3) Deviation of the differential at low setting point for switches of the same size:
± 0.05 bar (± 0.72 psi).

(4) Deviation of the differential at high setting point for switches of the same size:
- 0.1 bar, + 0.15 bar (- 1.45 psi, + 2.17 psi).

Operating curves



- 1 Maximum differential
2 Minimum differential



— Adjustable value

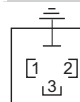
Connection

Terminal model



Connector model

Pressure switch connector pin view



- 1 → 11 and 13
2 → 12
3 → 14

Electromechanical pressure switches

XM range, XML switches

Size 10 bar (145 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 2 CO single-pole contacts

XMLC pressure switches	With setting scale
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Adjustable range of switching point (PH) (Rising pressure)	0.7...10 bar (10.15...145 psi)
Electrical connection	Terminals
Fluid connection	G 1/4 (female)

References (1)	
Hydraulic oils, fresh water, air, up to + 160 °C	XMLC010B2S12
Corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLC010C2S12

Weight (kg)	0.685
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Complementary characteristics not shown under general characteristics (page 17)

Possible differential (subtract from PH to give PB)	Min. at low setting (3)	0.45 bar (6.53 psi)
	Min. at high setting (4)	0.70 bar (10.15 psi)
	Max. at high setting	8 bar (116 psi)
Maximum permissible pressure	Per cycle	12.5 bar (181.25 psi)
	Accidental	22.5 bar (326.25 psi)
Destruction pressure		45 bar (652.5 psi)
Mechanical life		5 x 10 ⁸ operating cycles
Cable entry for terminal models		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm

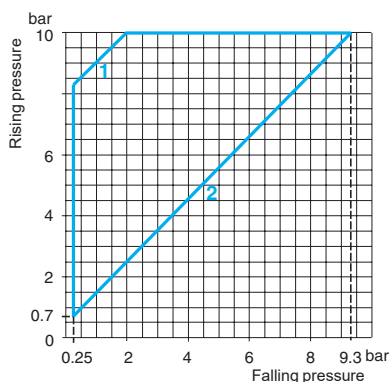
(1) For 1 entry tapped for no. 13 cable gland, replace **S12** with **S11** (for example, **XMLC010B2S12** becomes **XMLC010B2S11**).

(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low setting point for switches of the same size:
± 0.05 bar (± 0.72 psi)

(4) Deviation of the differential at high setting point for switches of the same size:
± 0.01 bar (± 1.45 psi)

Operating curves

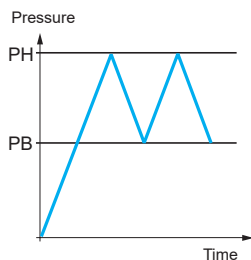


- 1 Maximum differential
2 Minimum differential

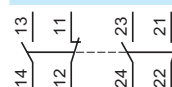
Other versions

Connection

Terminal model



— Adjustable value



For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 10 bar (145 psi)

Dual stage, fixed differential, for detection at each threshold

With 2 CO single-pole contacts

XMLD pressure switches

Without setting scale



Adjustable range of each switching point (Rising pressure)	2nd stage switching point (PH2)	1.2...10 bar (17.4...145 psi)
	1st stage switching point (PH1)	0.52...9.32 bar (7.54...135.14 psi)
Spread between 2 stages (PH2 - PH1)		0.68...5.8 bar (9.86...84.1 psi)
Fluid connection		G 1/4 (female)
Electrical connection		Terminals

References

Fluids controlled (1)	Hydraulic oils, fresh water, air, up to + 160 °C	XMLD010B1S11
Weight (kg)	0.705	

Complementary characteristics not shown under general characteristics (page 17)

Natural differential (subtract from PH1/PH2 to give PB1/PB2)	At low setting (2)	0.45 bar (6.53 psi)
	At high setting (3)	0.6 bar (8.7 psi)
Maximum permissible pressure	Per cycle	12.5 bar (181.25 psi)
	Accidental	22.5 bar (326.25 psi)
Destruction pressure		45 bar (652.5 psi)
Mechanical life		5 x 10 ⁶ operating cycles
Cable entry for terminal models		1 entry tapped for no. 13 cable gland
Pressure switch type		Diaphragm

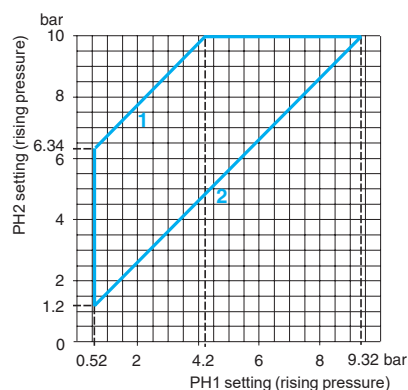
(1) For component materials of units in contact with the fluid, see page 57 .

(2) Deviation of the differential at low setting point for switches of the same size:
± 0.05 bar (± 0.72 psi)

(3) Deviation of the differential at high setting point for switches of the same size:
± 0.1 bar (± 1.45 psi)

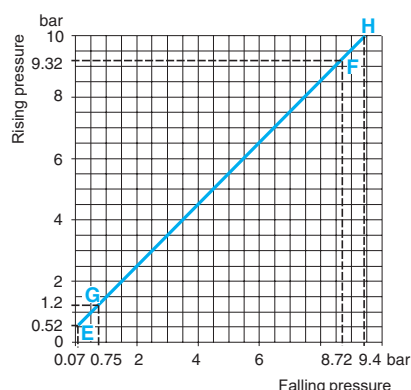
Operating curves

High setting tripping points of contacts 1 and 2

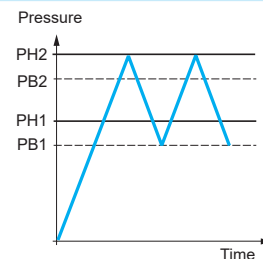


- 1 Maximum differential
- 2 Minimum differential

Natural differential of contacts 1 and 2



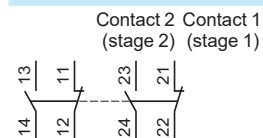
- EF Contact 1 (stage 1)
- GH Contact 2 (stage 2)



— Adjustable value
--- Non adjustable value

Connection

Terminal model



Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 20 bar (290 psi)

Fixed differential, for detection of a single threshold

With 1 CO single-pole contact

XMLA pressure switches

With setting scale



Adjustable range of switching point (PH) (Rising pressure)	1...20 bar (14.5...290 psi)		
Electrical connection	DIN connector	Terminals	
Fluid connection	G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)

References (1)

Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLA020A2C11	XMLA020A2S12	XMLA020A2S13
	Hydraulic oils, fresh water, air, up to + 160 °C	XMLA020B2C11	XMLA020B2S12	—
	Viscous products, up to + 160 °C (G 1/4" fluid connection)	—	XMLA020P2S12	—
Weight (kg)		0.715	0.685	0.685

Complementary characteristics not shown under general characteristics (page 17)

Natural differential (subtract from PH to give PB)	At low setting (3)	0.4 bar (5.8 psi)		
	At high setting (3)	1 bar (14.5 psi)		
Maximum permissible pressure	Per cycle	25 bar (362.5 psi)		
	Accidental	45 bar (652.5 psi)		
Destruction pressure		90 bar (1305 psi)		
Mechanical life		5 x 10 ⁶ operating cycles		
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 52	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm		

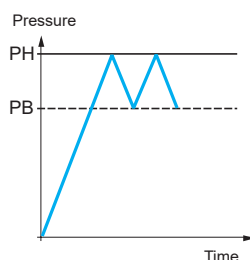
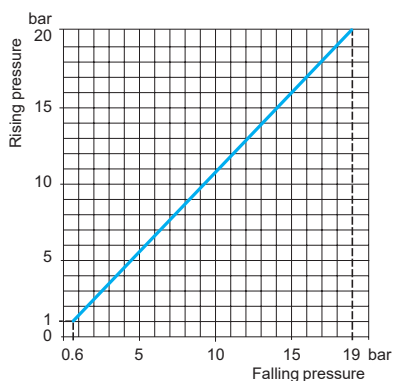
(1) For 1 entry tapped for no. 13 cable gland, replace **S12** with **S11** (for example, **XMLA020A2S12** becomes **XMLA020A2S11**).

(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at high setting point for switches of the same size:
± 0.1 bar (± 1.45 psi)

Deviation of the differential at low setting point: ± 0.2 bar (± 2.9 psi)

Operating curves



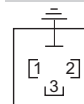
Connection

Terminal model



Connector model

Pressure switch connector pin view



1 → 11 and 13
2 → 12
3 → 14

— Adjustable value

--- Non adjustable value

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 20 bar (290 psi)

Adjustable differential, for regulation between 2 thresholds

With 1 CO single-pole contact

XMLB pressure switches

With setting scale



Adjustable range of switching point (PH) (Rising pressure)	1.3...20 bar (18.9...290 psi)	
Electrical connection	Terminals	
Fluid connection	G 1/4 (female)	1/4"-18 NPTF (female)

References (1)

Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLB020A2S12	XMLB020A2S13
	Corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLB020C2S12	—
Weight (kg)	0.705		0.705

Complementary characteristics not shown under general characteristics (page 17)

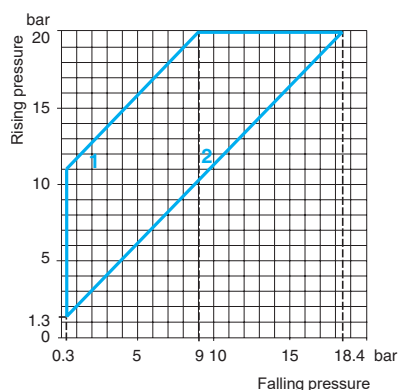
Possible differential (subtract from PH to give PB)	Min. at low setting (3)	1 bar (14.5 psi)
	Min. at high setting (3)	1.6 bar (23.20 psi)
	Max. at high setting	11 bar (159.5 psi)
Maximum permissible pressure	Per cycle	25 bar (362.5 psi)
	Accidental	45 bar (652.5 psi)
Destruction pressure	90 bar (1305 psi)	
Mechanical life	5 x 10 ⁶ operating cycles	
Connection	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type	Diaphragm	

(1) For 1 entry tapped for no .13 cable gland, replace S12 with S11 (for example, XMLB020A2S12 becomes XMLB020A2S11).

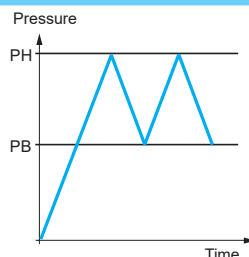
(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low and high setting points for switches of the same size:
± 0.25 bar (± 3.63 psi)

Operating curves



- 1 Maximum differential
2 Minimum differential



— Adjustable value

Connection

Terminal model



Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 20 bar (290 psi)

Adjustable differential, for regulation between 2 thresholds

With 2 CO single-pole contacts

XMLC pressure switches	With setting scale
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Adjustable range of switching point (PH) (Rising pressure)	1.3...20 bar (18.85...290 psi)
Electrical connection	Terminals
Fluid connection	G 1/4 (female)

References (1)

Hydraulic oils, fresh water, air, up to + 160 °C	XMLC020B2S12
Weight (kg)	0.685

Complementary characteristics not shown under general characteristics (page 17)

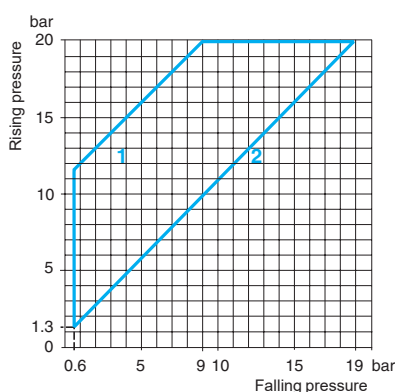
Possible differential (subtract from PH to give PB)	Min. at low setting (3)	0.7 bar (10.15 psi)
	Min. at high setting (3)	1 bar (14.5 psi)
	Max. at high setting	11 bar (159.5 psi)
Maximum permissible pressure	Per cycle	25 bar (362.5 psi)
	Accidental	45 bar (652.5 psi)
Destruction pressure		90 bar (1305 psi)
Mechanical life		5 x 10 ⁶ operating cycles
Cable entry for terminal models		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm

(1) For 1 entry tapped for no. 13 cable gland, replace **S12** with **S11** (for example, **XMLC020B2S12** becomes **XMLC020B2S11**).

(2) For component materials of units in contact with the fluid, see page 57.

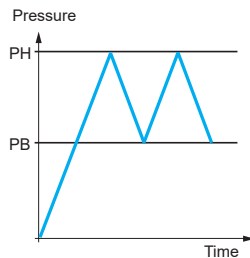
(3) Deviation of the differential at low and high setting points for switches of the same size:
± 0.2 bar (± 2.9 psi)

Operating curves



- 1 Maximum differential
- 2 Minimum differential

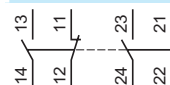
Other versions



— Adjustable value

Connection

Terminal model



For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 20 bar (290 psi)

Dual stage, fixed differential, for detection at each threshold

Switches with 2 CO single-pole contacts

XMLD pressure switches

Without setting scale



Adjustable range of each switching point (Rising pressure)	2nd stage switching point (PH2) 1st stage switching point (PH1)	2.14...20 bar (31.03...290 psi) 0.9...18.76 bar (13.05...272.02 psi)
Spread between 2 stages (PH2 - PH1)		1.24...9.55 bar (17.98...138.48 psi)
Electrical connection		Terminals
Fluid connection		G 1/4 (female)

References (1)

	Corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLD020C1S12
Weight (kg)		0.705

Complementary characteristics not shown under general characteristics (page 17)

Natural differential (subtract from PH1/PH2 to give PB1/PB2)	At low setting (3) At high setting (4)	0.7 bar (10.15 psi) 1.3 bar (18.85 psi)
Maximum permissible pressure	Per cycle Accidental	25 bar (362.5 psi) 45 bar (652.5 psi)
Destruction pressure		90 bar (1305 psi)
Mechanical life		5 x 10 ⁶ operating cycles
Cable entry for terminal models		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm

(1) For 1 entry tapped for no .13 cable gland, replace S12 with S11 (for example, XMLD020B1S12 becomes XMLD020B1S11).

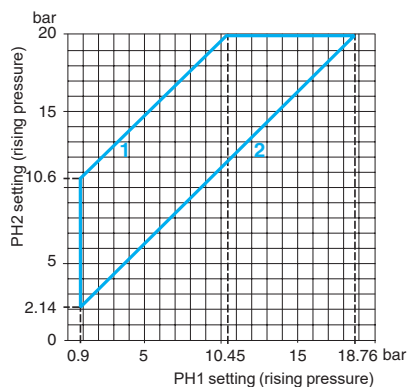
(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low setting point for switches of the same size:
± 0.15 bar (± 2.18 psi)

(4) Deviation of the differential at high setting point for switches of the same size:
± 0.3 bar (± 4.35 psi)

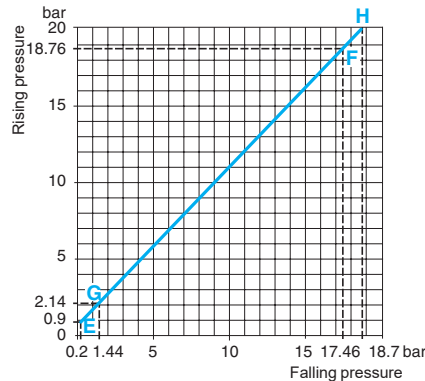
Operating curves

High setting tripping points of contacts 1 and 2

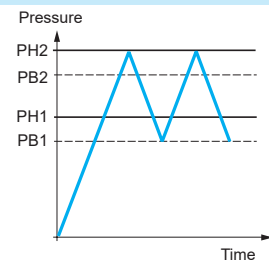


- 1 Maximum differential
- 2 Minimum differential

Natural differential of contacts 1 and 2



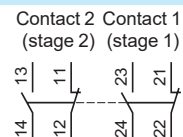
- EF Contact 1 (stage 1)
- GH Contact 2 (stage 2)



— Adjustable value
--- Non adjustable value

Connection model

Terminal model



Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 35 bar (507.5 psi)

Fixed differential, for detection of a single threshold

Switches with 1 CO single-pole contact

XMLA pressure switches

With setting scale



Adjustable range of switching point (PH) (Rising pressure)	1.5...35 bar (21.75...507.5 psi)	
Electrical connection	DIN connector	Terminals
Fluid connection	G 1/4 (female)	G 1/4 (female)

References (1)

Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLA035A2C11	XMLA035A2S12
	Hydraulic oils, fresh water, air, up to + 160 °C	XMLA035B2C11	—
	Corrosive fluids, up to + 160 °C	XMLA035C2C11	—
	Sea water, up to + 30 °C		
Weight (kg)		0.725	0.695

Complementary characteristics not shown under general characteristics (page 17)

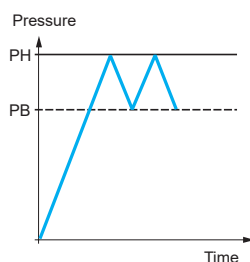
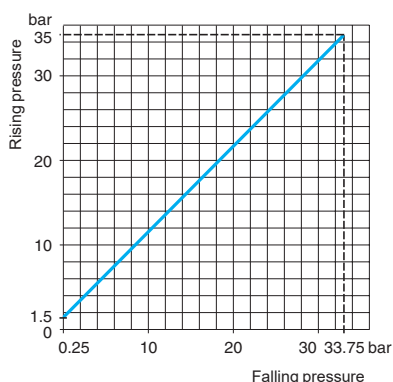
Natural differential (subtract from PH to give PB)	At low setting (3)	1.25 bar (18.12 psi)	
	At high setting (3)	1.25 bar (18.12 psi)	
Maximum permissible pressure	Per cycle	45 bar (652.5 psi)	
	Accidental	80 bar (1160 psi)	
Destruction pressure		160 bar (2320 psi)	
Mechanical life		5 x 10 ⁶ operating cycles	
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 52	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm	

(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLA035A2S12 becomes XMLA035A2S11).

(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low and high setting points for switches of the same size:
± 0.25 bar (± 3.62 psi)

Operating curves



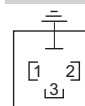
Connection

Terminal model



Connector model

Pressure switch connector pin view


1 → 11 and 13
2 → 12
3 → 14

— Adjustable value
--- Non adjustable value

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches
XM range, XML switches

Size 35 bar (507.5 psi)
Adjustable differential, for regulation between 2 thresholds
Switches with 1 CO single-pole contact

XMLB pressure switches

With setting scale



Adjustable range of switching point (PH) (Rising pressure)	3.5...35 bar (50.75...507.5 psi)
Electrical connection	DIN connector
Fluid connection	G 1/4 (female)

References (1)

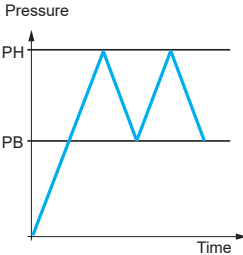
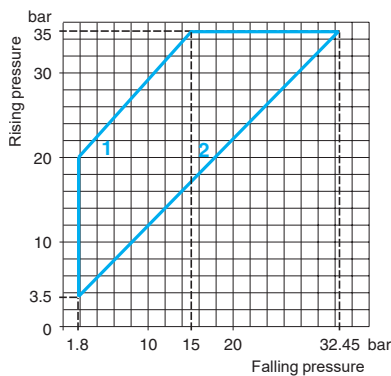
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLB035A2C11
Weight (kg)		0.745

Complementary characteristics not shown under general characteristics (page 17)

Possible differential (subtract from PH to give PB)	Min. at low setting (3)	1.7 bar (24.65 psi)
	Min. at high setting (3)	2.55 bar (36.97 psi)
	Max. at high setting	20 bar (290 psi)
Maximum permissible pressure	Per cycle	45 bar (652.5 psi)
	Accidental	80 bar (1160 psi)
Destruction pressure		160 bar (2320 psi)
Mechanical life		5 x 10 ⁶ operating cycles
Connection		EN 175301-803-A connector (ex-DIN 43650A), 4-pin male. For suitable female connector, see page 52
Pressure switch type		Diaphragm

- (1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLB035A2S12 becomes XMLB035A2S11) .
(2) For component materials of units in contact with the fluid, see page 57 .
(3) Deviation of the differential at low and high setting points for switches of the same size:
- 0.5 bar, + 0.7 bar (- 7.25 psi, + 10.15 psi) .

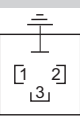
Operating curves



Connection

Connector model

Pressure switch connector pin view



- 1 → 11 and 13
2 → 12
3 → 14

- 1 Maximum differential
2 Minimum differential

— Adjustable value

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 35 bar (507.5 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 2 CO single-pole contacts

XMLC pressure switches

With setting scale



Adjustable range of switching point (PH) (Rising pressure)	3.5...35 bar (50.75...507.5 psi)
Electrical connection	Terminals
Fluid connection	G 1/4 (female)

References (1)

Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 160 °C	XMLC035B2S12
	Corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLC035C2S12
Weight (kg)	0.695	

Complementary characteristics not shown under general characteristics (page 17)

Possible differential (subtract from PH to give PB)	Min. at low setting (3)	1 bar (14.5 psi)
	Min. at high setting (4)	1.5 bar (21.75 psi)
	Max. at high setting	22 bar (319 psi)
Maximum permissible pressure	Per cycle	45 bar (652.5 psi)
	Accidental	80 bar (1160 psi)
Destruction pressure	160 bar (2320 psi)	
Mechanical life	5 x 10 ⁶ operating cycles	
Cable entry for terminal models	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	
Pressure switch type	Diaphragm	

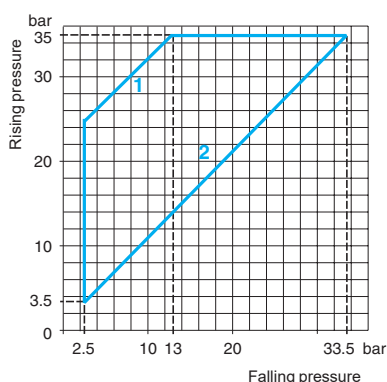
(1) For 1 entry tapped for no .13 cable gland, replace **S12** with **S11** (for example, **XMLC035B2S12** becomes **XMLC035B2S11**).

(2) For component materials of units in contact with the fluid, see page 57.

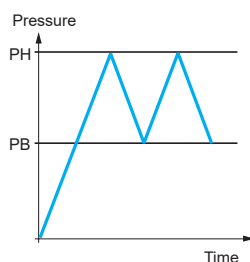
(3) Deviation of the differential at low setting point for switches of the same size:
± 0.2 bar (± 2.9 psi)

(4) Deviation of the differential at high setting point for switches of the same size:
± 0.5 bar (± 7.25 psi)

Operating curves



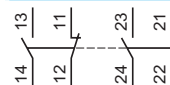
- 1 Maximum differential
2 Minimum differential



— Adjustable value

Connection

Terminal model



Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 70 bar (1015 psi)

Fixed differential, for detection of a single threshold

Switches with 1 CO single-pole contact

XMLA pressure switches

With setting scale



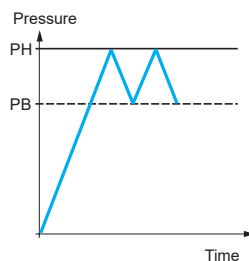
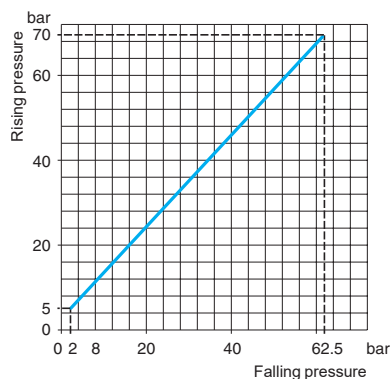
Adjustable range of switching point (PH) (Rising pressure)		5...70 bar (72.5...1015 psi)		
Electrical connection		DIN connector	Terminals	
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)
References (1)				
Fluids controlled (2)	Hydraulic oils, up to + 160 °C	XMLA070D2C11	XMLA070D2S12	XMLA070D2S13
	Fresh water, up to + 160 °C	—	—	XMLA070E2S13
	Corrosive fluids, air, up to + 160 °C	—	XMLA070N2S12	—
Weight (kg)		0.725	0.695	0.695
Complementary characteristics not shown under general characteristics (page 17)				
Natural differential (subtract from PH to give PB)	At low setting (3)	3 bar (43.5 psi)		
	At high setting (3)	9.5 bar (137.75 psi)		
Maximum permissible pressure	Per cycle	90 bar (1035 psi)		
	Accidental	160 bar (2320 psi)		
Destruction pressure		320 bar (4640 psi)		
Mechanical life		6 x 10 ⁶ operating cycles		
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 52	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Piston		

(1) For 1 entry tapped for no .13 cable gland, replace **S12** with **S11** (for example, **XMLA070D2S12** becomes **XMLA070D2S11**).

(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low and high setting points for switches of the same size: ± 1 bar (± 14.5 psi)

Operating curves



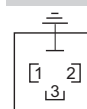
Connection

Terminal model



Connector model

Pressure switch connector pin view



1 → 11 and 13
2 → 12
3 → 14

— Adjustable value

--- Non adjustable value

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 160 bar (2320 psi)

Fixed differential, for detection of a single threshold

Switches with 1 CO single-pole contact

XMLA pressure switches

With setting scale



Adjustable range of switching point (PH) (Rising pressure)	10...160 bar (145...2320 psi)		
Electrical connection	DIN connector	Terminals	
Fluid connection	G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)

References (1)

Fluids controlled (2)	Hydraulic oils, up to + 160 °C	XMLA160D2C11	XMLA160D2S12	XMLA160D2S13
	Corrosive fluids, air, up to + 160 °C	XMLA160N2C11	—	—
Weight (kg)		0.780	0.750	0.750

Complementary characteristics not shown under general characteristics (page 17)

Complementary characteristics not shown under general characteristics (page 17)				
Natural differential (subtract from PH to give PB)	At low setting (3)	5.5 bar (79.75 psi)		
	At high setting (4)	18 bar (261 psi)		
Maximum permissible pressure	Per cycle	200 bar (2900 psi)		
	Accidental	360 bar (5220 psi)		
Destruction pressure		720 bar (10,440 psi)		
Mechanical life		6 x 10 ⁶ operating cycles		
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 52	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Piston		

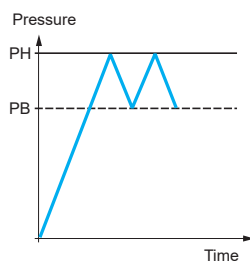
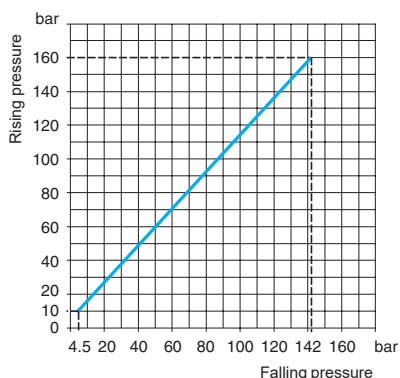
(1) For 1 entry tapped for no .13 cable gland, replace S12 with S11 (for example, XMLA160D2S12 becomes XMLA160D2S11).

(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low setting point for switches of the same size:
± 1 bar (± 14.5 psi)

(4) Deviation of the differential at high setting point for switches of the same size:
± 3 bar (± 43.5 psi)

Operating curves



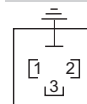
Connection

Terminal model



Connector model

Pressure switch connector pin view



1 → 11 and 13
2 → 12
3 → 14

— Adjustable value

--- Non adjustable value

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 160 bar (2320 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 1 CO single-pole contact

XMLB pressure switches

With setting scale



Adjustable range of switching point (PH) (Rising pressure)		10...160 bar (145...2320 psi)	
Electrical connection		DIN connector	Terminals
Fluid connection		G 1/4 (female)	G 1/4 (female)
References (1)			
Fluids controlled (2)	Hydraulic oils, up to + 160 °C	XMLB160D2C11	XMLB160D2S12
Weight (kg)		0.780	0.750
Complementary characteristics not shown under general characteristics (page 17)			
Possible differential (subtract from PH to give PB)	Min. at low setting (3)	9.3 bar (134.85 psi)	
	Min. at high setting (4)	20.8 bar (301.6 psi)	
	Max. at high setting	100 bar (1450 psi)	
Maximum permissible pressure	Per cycle	200 bar (2900 psi)	
	Accidental	360 bar (5220 psi)	
Destruction pressure		720 bar (10,440 psi)	
Mechanical life		6 x 10 ⁶ operating cycles	
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 52	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Piston	

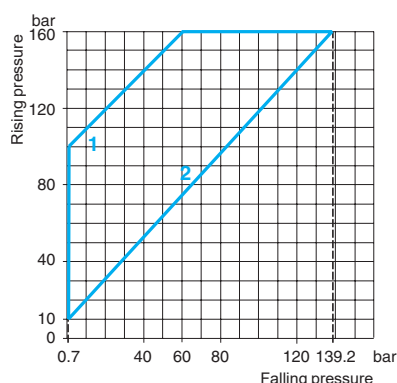
(1) For 1 entry tapped for no. 13 cable gland, replace **S12** with **S11** (for example, **XMLB160D2S12** becomes **XMLB160D2S11**).

(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low setting point for switches of the same size:
- 1.8 bar, + 1.5 bar (- 26.1 psi, + 21.75 psi).

(4) Deviation of the differential at high setting point for switches of the same size:
- 1.9 bar, + 1.6 bar (- 27.55 psi, + 23.2 psi).

Operating curves



- 1 Maximum differential
2 Minimum differential

Other versions

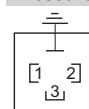
Connection

Terminal model



Connector model

Pressure switch connector pin view



- 1 → 11 and 13
2 → 12
3 → 14

— Adjustable value

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 160 bar (2320 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 2 CO single-pole contacts

XMLC pressure switches With setting scale



Adjustable range of switching point (PH) (Rising pressure)	12...160 bar (174...2320 psi)
Electrical connection	Terminals
Fluid connection	G 1/4 (female)

References (1)

Fluids controlled (2)	Hydraulic oils, up to + 160 °C	XMLC160D2S12
Weight (kg)		0.750

Complementary characteristics not shown under general characteristics (page 17)

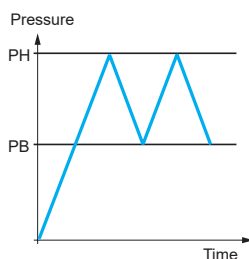
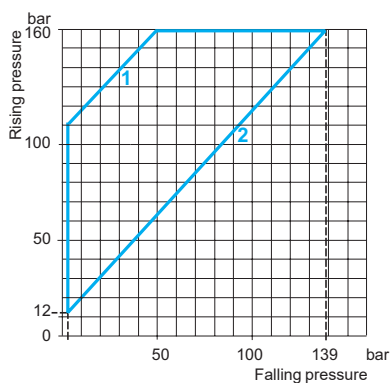
Possible differential (subtract from PH to give PB)	Min. at low setting (3)	9 bar (130.5 psi)
	Min. at high setting (3)	21 bar (304.5 psi)
	Max. at high setting	110 bar (1590 psi)
Maximum permissible pressure	Per cycle	200 bar (2900 psi)
	Accidental	360 bar (5220 psi)
Destruction pressure		720 bar (10 440 psi)
Mechanical life		6 x 10 ⁶ operating cycles
Cable entry for terminal models		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Piston

(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLC160D2S12 becomes XMLC160D2S11).

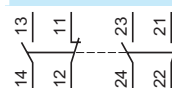
(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low and high setting points for switches of the same size:
± 0.9 bar (± 13.05 psi)

Operating curves Connection



Terminal model



- 1 Maximum differential
- 2 Minimum differential

— Adjustable value

Other versions For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 160 bar (2320 psi)

Dual stage, fixed differential, for detection at each threshold

Switches with 2 CO single-pole contacts

XMLD pressure switches

Without setting scale



Adjustable range of each switching point (Rising pressure)	2nd stage switching point (PH2)	16.5...160 bar (239.25...2320 psi)
	1st stage switching point (PH1)	10.5...154 bar (152.25...2233 psi)
Spread between 2 stages (PH2 - PH1)		6...83 bar (87...1203.5 psi)
Electrical connection		Terminals
Fluid connection		1/4"-18 NPTF (female)

References (1)

Fluids controlled (2)	Hydraulic oils, up to + 160 °C	XMLD160D1S13
Weight (kg)		0.750

Complementary characteristics not shown under general characteristics (page 17)

Natural differential (subtract from PH1/PH2 to give PB1/PB2)	At low setting (3)	8.8 bar (127.6 psi)
	At high setting (4)	20 bar (290 psi)
Maximum permissible pressure	Per cycle	200 bar (2900 psi)
	Accidental	360 bar (5220 psi)
Destruction pressure		720 bar (10,440 psi)
Mechanical life		6 x 10 ⁶ operating cycles
Cable entry for terminal models		1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Piston

(1) For 1 entry tapped for no .13 cable gland, replace S12 with S11 (for example, XMLD160D1S12 becomes XMLD160D1S11).

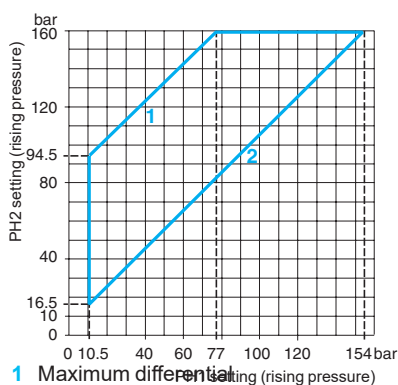
(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low setting point for switches of the same size:
± 1.5 bar (± 21.75 psi)

(4) Deviation of the differential at high setting point for switches of the same size:
± 7 bar (± 101.5 psi)

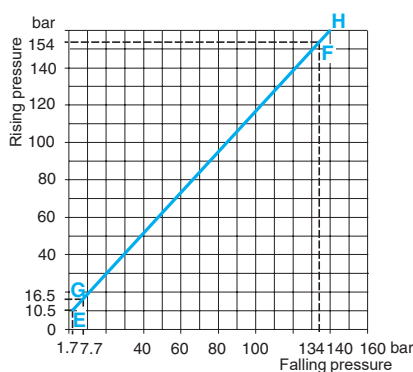
Operating curves

High setting tripping points of contacts 1 and 2

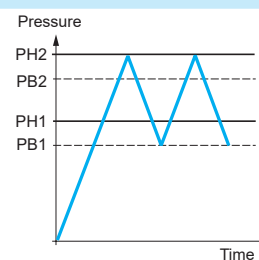


- 1 Maximum differential
- 2 Minimum differential

Natural differential of contacts 1 and 2



- EF Contact 1 (stage 1)
- GH Contact 2 (stage 2)



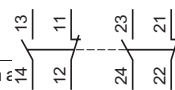
— Adjustable value
--- Non adjustable value

Connection

Terminal model

Contact 2 (stage 2)
Contact 1 (stage 1)

Other versions

For pressure switches with alternative tapped cable entries, such as , consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 300 bar (4350 psi)

Fixed differential, for detection of a single threshold

Switches with 1 CO single-pole contact

XMLA pressure switches With setting scale



Adjustable range of switching point (PH) (Rising pressure)	20...300 bar (290...4350 psi)		
Electrical connection	DIN connector	Terminals	
Fluid connection	G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)

References (1)

Fluids controlled (2) (5)	Hydraulic oils, up to + 160 °C	XMLA300D2C11	XMLA300D2S12	XMLA300D2S13
	Fresh water, up to + 160 °C	—	XMLA300E2S12	—
Weight (kg)		0.780	0.750	0.750

Complementary characteristics not shown under general characteristics (page 17)

Natural differential (subtract from PH to give PB)	At low setting (3)	16.5 bar (239.25 psi)		
	At high setting (4)	35 bar (507.5 psi)		
Maximum permissible pressure	Per cycle	375 bar (5437.5 psi)		
	Accidental	675 bar (9787.5 psi)		
Destruction pressure		1350 bar (19 575 psi)		
Mechanical life		3 x 10 ⁶ operating cycles		
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 52	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Piston		

(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLA300D2S12 becomes XMLA300D2S11).

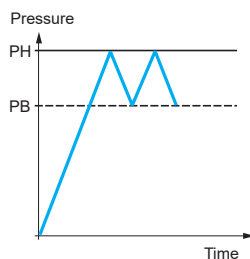
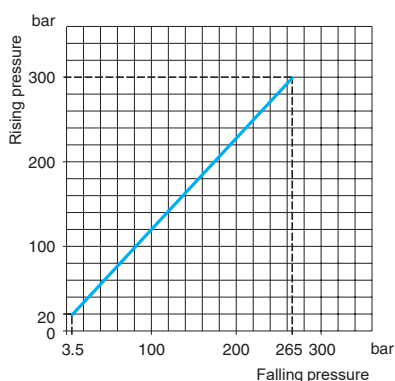
(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low setting point for switches of the same size:
± 3 bar (± 43.5 psi)

(4) Deviation of the differential at high setting point for switches of the same size:
± 6 bar (± 87 psi)

(5) Only for control of group 2 fluids, in accordance with directive 97/23/EEC.

Operating curves Connection

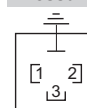


Terminal model



Connector model

Pressure switch connector pin view



1 → 11 and 13
2 → 12
3 → 14

— Adjustable value
--- Non adjustable value

Other versions For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 300 bar (4350 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 1 CO single-pole contact

XMLB pressure switches

With setting scale



Adjustable range of switching point (PH) (Rising pressure)	22...300 bar (319...4350 psi)		
Electrical connection	DIN connector	Terminals	
Fluid connection	G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)

References (1)

Fluids controlled (2)/(5)	Hydraulic oils, up to + 160 °C Corrosive fluids, air, up to + 160 °C	XMLB300D2C11	XMLB300D2S12	XMLB300D2S13
		—	XMLB300N2S12	—
Weight (kg)		0.780	0.750	0.750

Complementary characteristics not shown under general characteristics (page 17)

Possible differential (subtract from PH to give PB)	Min. at low setting (3)	19.4 bar (281.3 psi)		
	Min. at high setting (4)	37 bar (536.5 psi)		
	Max. at high setting	200 bar (2900 psi)		
Maximum permissible pressure	Per cycle	375 bar (5437.5 psi)		
	Accidental	675 bar (9787.5 psi)		
Destruction pressure		1350 bar (19,575 psi)		
Mechanical life		3 x 10 ⁶ operating cycles		
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 52	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Piston		

(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLB300D2S12 becomes XMLB300D2S11).

(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low setting point for switches of the same size:

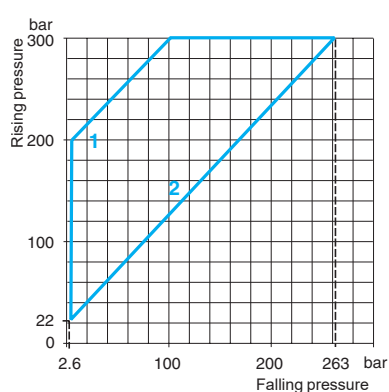
- 1.5 bar, + 1.7 bar (- 21.75 psi, + 24.65 psi).

(4) Deviation of the differential at high setting point for switches of the same size:

- 1 bar, + 4 bar (- 14.5 psi, + 58 psi).

(5) Only for control of group 2 fluids, in accordance with directive 97/23/EEC.

Operating curves



- 1 Maximum differential
2 Minimum differential

Other versions

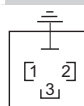
Connection

Terminal model



Connector model

Pressure switch connector pin view



- 1 → 11 and 13
2 → 12
3 → 14

— Adjustable value

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 300 bar (4350 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 2 CO single-pole contacts

XMLC pressure switches	With setting scale
------------------------	--------------------



Adjustable range of switching point (PH) (Rising pressure)	22...300 bar (319...4350 psi)
Electrical connection	Terminals
Fluid connection	G 1/4 (female)

References (1)		
Fluids controlled (2) (4)	Hydraulic oils, up to + 160 °C	XMLC300D2S12
Weight (kg)		0.750

Complementary characteristics not shown under general characteristics (page 17)		
Possible differential (subtract from PH to give PB)	Min. at low setting (3)	16 bar (232 psi)
	Min. at high setting (3)	35 bar (507.5 psi)
	Max. at high setting	240 bar (3480 psi)
Maximum permissible pressure	Per cycle	375 bar (5437.5 psi)
	Accidental	675 bar (9787.5 psi)
Destruction pressure		1350 bar (19 575 psi)
Mechanical life		3 x 10 ⁶ operating cycles
Cable entry for terminal models		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Piston

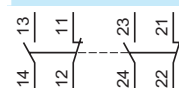
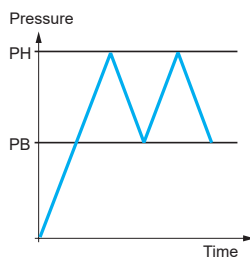
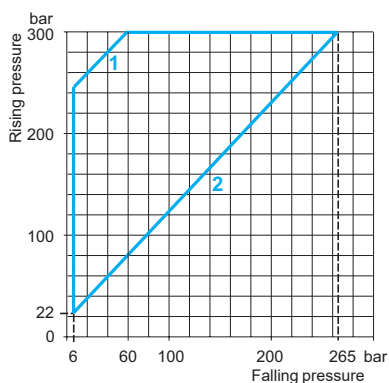
(1) For 1 entry tapped for no .13 cable gland, replace S12 with S11 (for example, XMLC300D2S12 becomes XMLC300D2S11) .

(2) For component materials of units in contact with the fluid, see page 57 .

(3) Deviation of the differential at low and high setting points for switches of the same size:
± 0.9 bar (± 13.05 psi)

(4) Only for control of group 2 fluids, in accordance with directive 97/23/EEC.

Operating curves	Connection
	Terminal model



- 1 Maximum differential
- 2 Minimum differential

— Adjustable value

Other versions	For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.
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Electromechanical pressure switches

XM range, XML switches

Size 500 bar (7250 psi)

Fixed differential, for detection of a single threshold

Switches with 1 CO single-pole contact

XMLA pressure switches

With setting scale



Adjustable range of switching point (PH) (Rising pressure)		30...500 bar (435...7250 psi)		
Electrical connection		DIN connector	Terminals	
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)
References (1)				
Fluids controlled (2) (5)	Hydraulic oils, up to + 160 °C	—	XMLA500D2S12	XMLA500D2S13
	Corrosive fluids, air, up to + 160 °C	XMLA500N2C11	—	—
Weight (kg)		0.780	0.750	0.750
Complementary characteristics not shown under general characteristics (page 17)				
Natural differential (subtract from PH to give PB)	At low setting (3)	20 bar (290 psi)		
	At high setting (4)	45 bar (652.5 psi)		
Maximum permissible pressure	Per cycle	625 bar (9062.5 psi)		
	Accidental	1125 bar (16,312.5 psi)		
Destruction pressure		2250 bar (32,625 psi)		
Mechanical life		3 x 10 ⁶ operating cycles		
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 52	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Piston		

(1) For 1 entry tapped for no. 13 cable gland, replace **S12** with **S11** (for example, **XMLA500D2S12** becomes **XMLA500D2S11**).

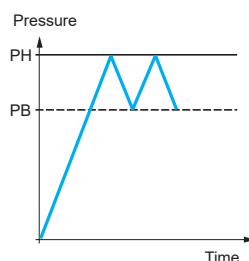
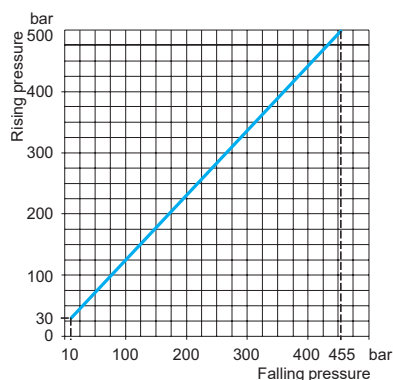
(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low setting point for switches of the same size:
± 6 bar (± 87 psi)

(4) Deviation of the differential at high setting point for switches of the same size:
± 10 bar (± 145 psi)

(5) Only for control of group 2 fluids, in accordance with directive 97/23/EEC.

Operating curves



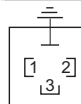
Connection

Terminal model



Connector model

Pressure switch connector pin view



1 → 11 and 13
2 → 12
3 → 14

— Adjustable value
--- Non adjustable value

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

XM range, XML switches

Size 500 bar (7250 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 1 CO single-pole contact

XMLB pressure switches

With setting scale



Adjustable range of switching point (PH) (Rising pressure)	30...500 bar (435...7250 psi)	
Electrical connection	DIN connector	Terminals
Fluid connection	G 1/4 (female)	G 1/4 (female)

References (1)

Fluids controlled (2) (5)	Hydraulic oils, up to + 160 °C	XMLB500D2C11	XMLB500D2S12
	Corrosive fluids, air, up to + 160 °C	XMLB500N2C11	XMLB500N2S12
Weight (kg)	0.780		0.750

Complementary characteristics not shown under general characteristics (page 17)

Possible differential (subtract from PH to give PB)	Min. at low setting (3)	23 bar (333.5 psi)
	Min. at high setting (4)	52.6 bar (762.7 psi)
	Max. at high setting	300 bar (4350 psi)
Maximum permissible pressure	Per cycle	625 bar (9062.5 psi)
	Accidental	1125 bar (16,312.5 psi)
Destruction pressure	2250 bar (32,625 psi)	
Mechanical life	3 x 10 ⁶ operating cycles	
Connection	EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 52	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type	Piston	

(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLB500D2S12 becomes XMLB500D2S11).

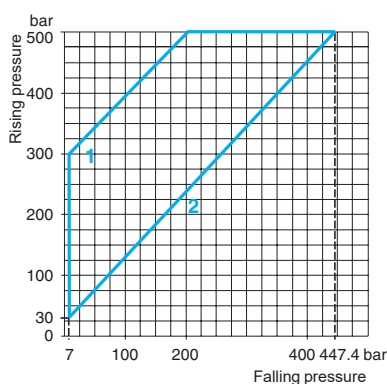
(2) For component materials of units in contact with the fluid, see page 57.

(3) Deviation of the differential at low setting point for switches of the same size:
- 2.6 bar, + 3.8 bar (- 37.7 psi, + 55.1 psi).

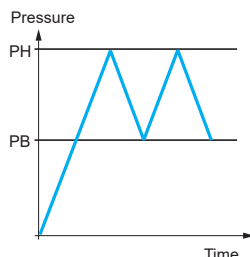
(4) Deviation of the differential at high setting point for switches of the same size:
- 14.8 bar, + 11.2 bar (- 214.6 psi, + 162.4 psi).

(5) Only for control of group 2 fluids, in accordance with directive 97/23/EEC.

Operating curves



- 1 Maximum differential
2 Minimum differential



— Adjustable value

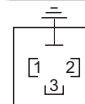
Connection

Terminal model



Connector model

Pressure switch connector pin view



- 1 → 11 and 13
2 → 12
3 → 14

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure and vacuum switches

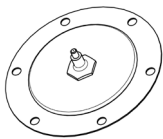
XMLA, XMLB, XMLC and XMLD switches
Accessories and replacement parts



XMLZL001



XZCC43FCP40B



XMLZL01●

Accessories for pressure switches and vacuum switches

Description	Specific characteristics	For use with switches	Unit reference	Weight kg
Lead sealable protective cover to prevent unauthorised access to adjustment screws and fixing screw of switch cover	—	XMLA XMLB	XMLZL001	0.035
Female EN 175301-803-A connector (ex-DIN 43650A)	—	XML●●●●●●C11	XZCC43FCP40B	0.035

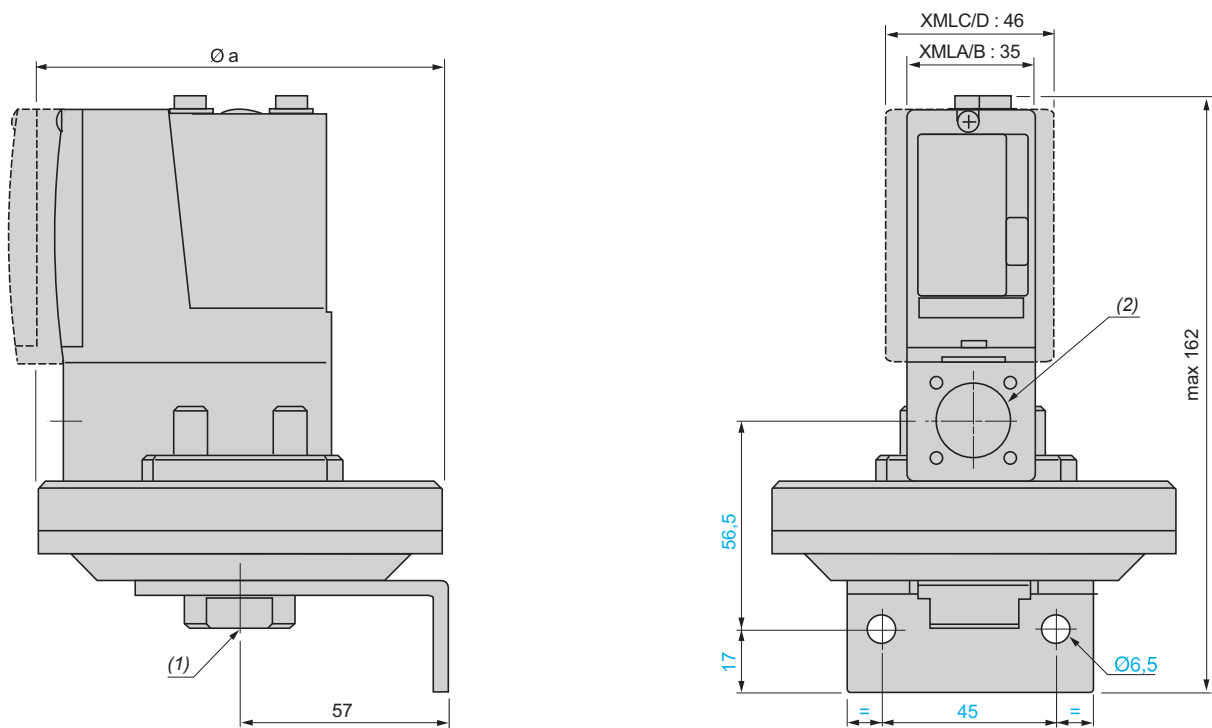
Replacement parts

Diaphragms	—	XML●S35	XMLZL013	0.060
		XML●S02	XMLZL014	0.040

Electromechanical pressure and vacuum switches

XMLA, XMLB, XMLC and XMLD switches

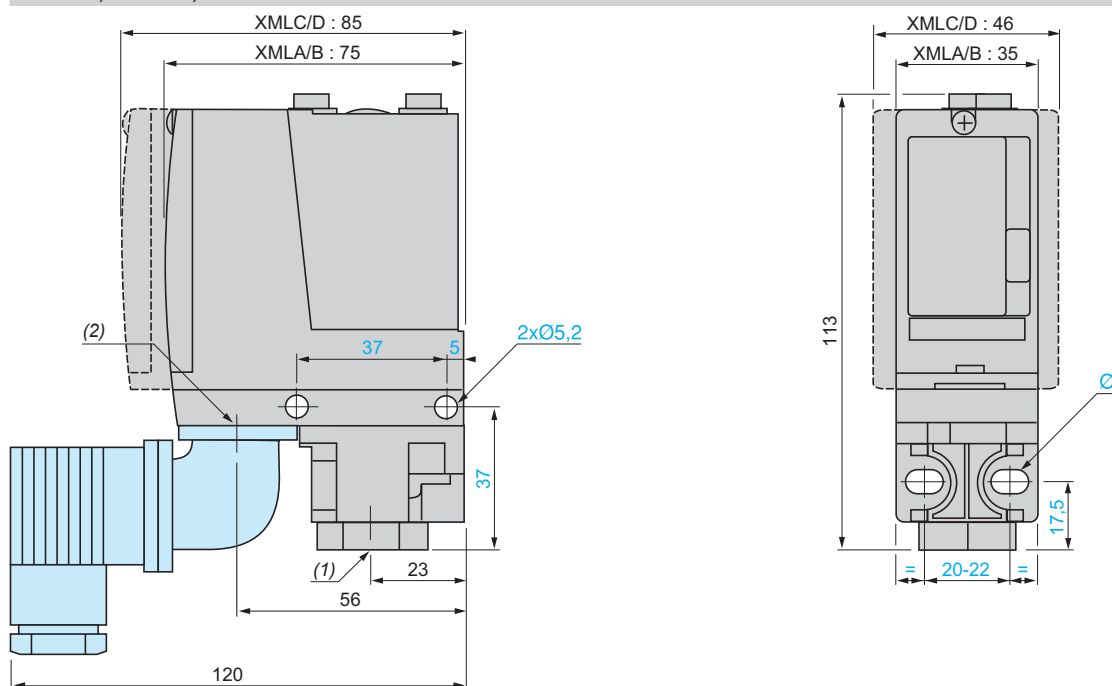
XML●L35, XML●001, XML●S



- (1) 1 fluid entry, tapped G 1/4 (female) or 1/4"-18 NPTF (female)
 (2) 1 electrical connections entry, tapped M20 x 1.5 mm or Pg 13.5 or 1/2"-14 NPT

XML	Øa	c1	c2
●L35, ●001	110	—	—
●S35, ●S02, ●S04	110	—	—

XMLAM01, XMLA004, XML●010...500



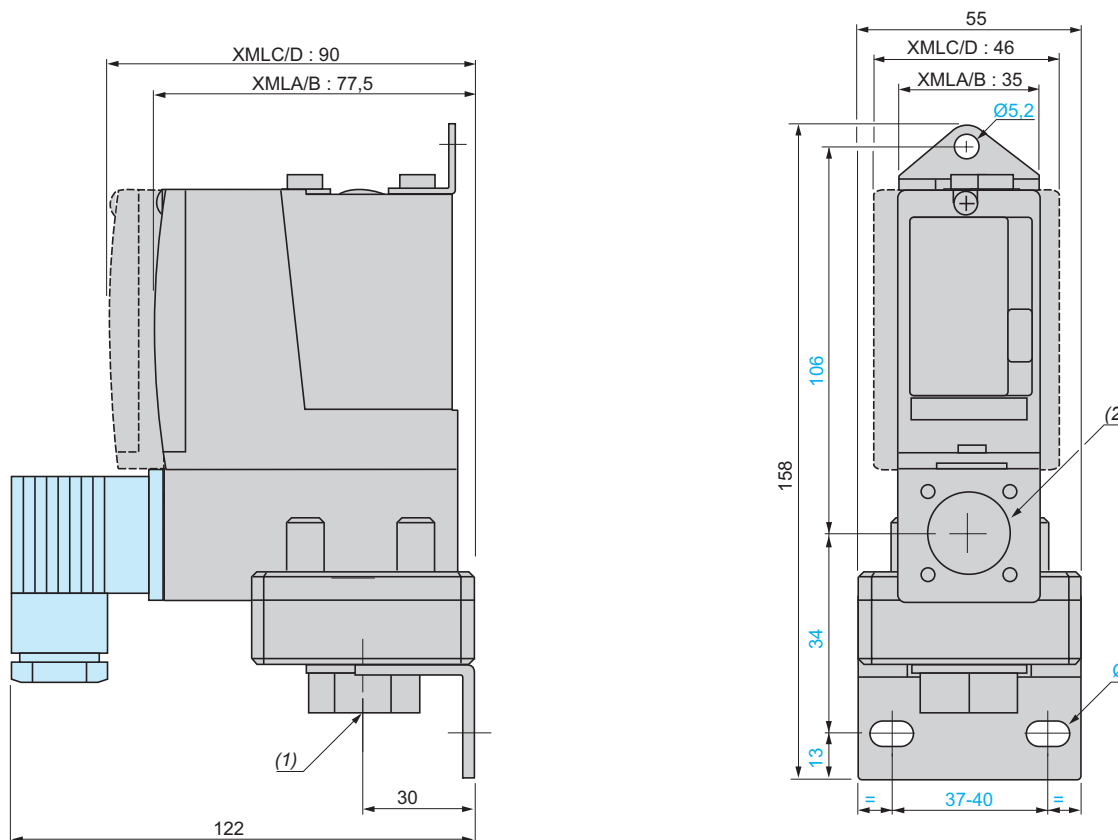
- (1) 1 fluid entry, tapped G 1/4 (female) or 1/4"-18 NPTF (female)
 (2) 1 electrical connections entry, tapped M20 x 1.5 mm or Pg 13.5 or 1/2"-14 NPT

Ø: 2 elongated holes Ø 5.2 x 6.7

Electromechanical pressure and vacuum switches

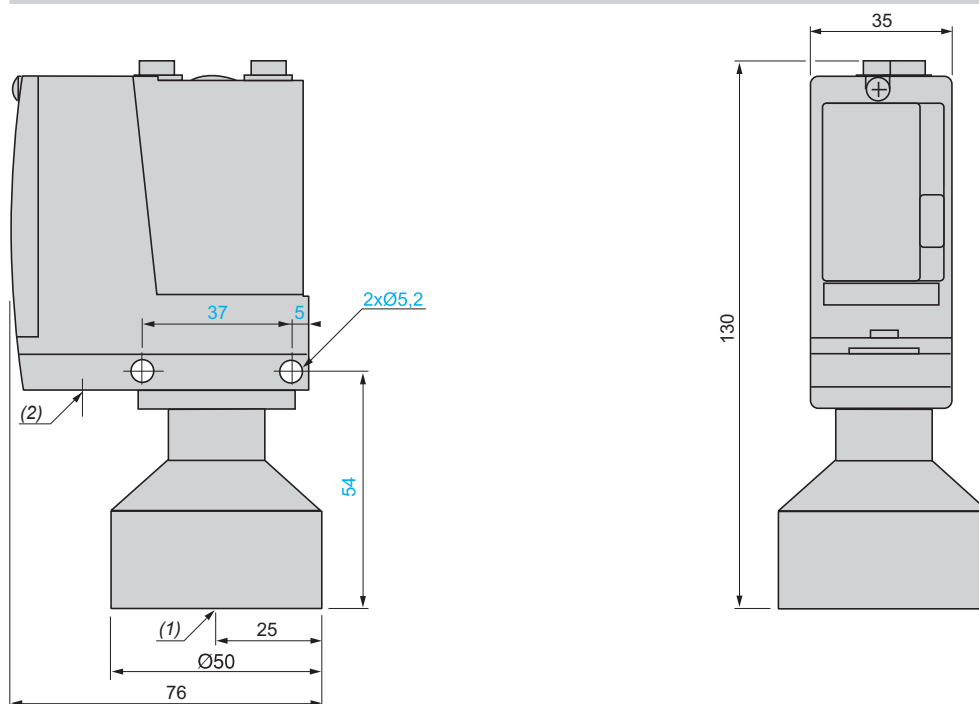
XMLA, XMLB, XMLC and XMLD switches

XML•M02, XML•002, XMLB004, XMLC004



(1) 1 fluid entry, tapped G 1/4 (female) or 1/4"-18 NPTF (female)
 (2) 1 electrical connections entry, tapped M20 x 1.5 mm or Pg 13.5 or 1/2"-14 NPT
 Ø: 2 elongated holes Ø 10.2 x 5.2

XMLA020P



(1) 1 fluid entry, tapped G 1 1/4 (female)
 (2) 1 electrical connections entry, tapped M20 x 1.5 mm or Pg 13.5

Characteristics:
 page 17

References:
 pages 18 to 51

Component materials of units in contact with fluid

This information will assist in checking the corrosion resistance of the pressure or vacuum switches in relation to the fluids controlled

Electromechanical pressure and vacuum switches

XML range

Pressure or vacuum switch reference	Component materials in contact with fluid							
	Zinc alloy	Stainless steel	Brass	Steel	Nitrile	PTFE	FPM, FKM	Aluminium
XMLAM01V●●●●, XML●M02V●●●●		(1)						
XMLBM03S●●●●		(2)						
XML●M05C●●●●		(1)						
XMLBL05S●●●●		(2)						
XML●L35R●●●●, XML●S35R●●●●		(1)						
XML●001S●●●●		(2)						
XML●002A●●●●								
XML●002B●●●●, XML●S02B●●●●								
XMLA004A●●●●								
Pressure switch reference	Component materials in contact with fluid							
	Zinc alloy	Stainless steel	Brass	Steel	Nitrile	PTFE	FPM, FKM	Aluminium
XMLB004A●●●●								
XML●004B●●●●, XML●S04B●●●●								
XML●004C●●●●		(2)						
XML●010A●●●●								
XML●010B●●●●								
XML●010C●●●●		(3)						
XML●020A●●●●, XML●035A●●●●								
XML●020B●●●●, XML●035B●●●●								
XML●020C●●●●, XMLA035C2C11●		(3)						
XML●020P●●●●								
XML●070D●●●●, XML●160D●●●●								
XML●070E●●●●		(4)						
XML●070N●●●●, XML●160N●●●●		(5)						
XML●300D●●●●								
XML●300E●●●●		(4)						
XML●300N●●●●		(5)						
XML●500D●●●●								
XML●500N●●●●4		(5)						

Electromechanical pressure switches

XM range

For control circuits, ACW and ADW switches

Presentation

Pressure switches ACW and ADW are switches for control circuits, with an adjustable differential.

Pressure switches ACW are used to control the pressure of air, oils and other non corrosive fluids, up to 131 bar.

Pressure switches ADW are used to control the pressure of oils (including synthetic), up to 340 bar.

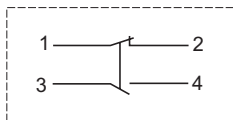
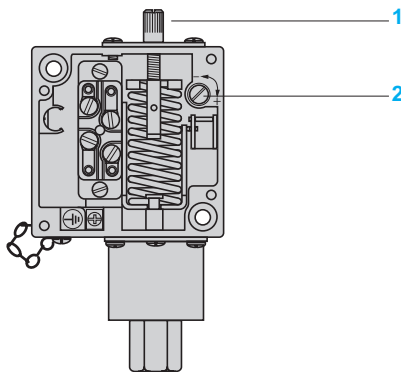
Setting, operating principle

Pressure switches ACW

The switching point on falling pressure (low point - PB) is adjusted using screw **1**.

The switching point on rising pressure (high point - PH) is made by adjusting screw **2**. This sets the differential between the low and high points, giving a switching point on rising pressure of the displayed low point setting plus the differential setting.

The two adjustments are completely independent.



Contact block operation

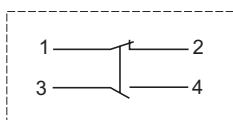
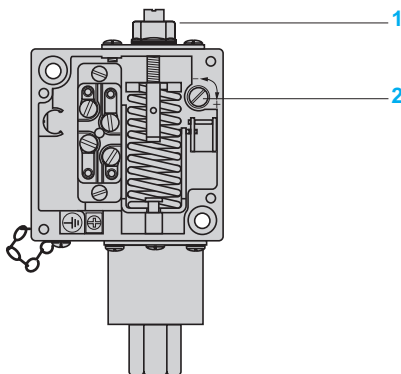
When the rising pressure reaches the high point setting (low point setting + differential setting), contact B (1-2) opens and contact A (3-4) closes. The contacts remain actuated until the pressure falls back to the low point setting.

Pressure switches ADW

The switching point on rising pressure (high point - PH) is adjusted using screw **1**.

The switching point on falling pressure (low point - PB) is made by adjusting screw **2**. This sets the differential between the high and low points, giving a switching point on falling pressure of the displayed high point setting minus the differential setting.

The two adjustments are completely independent.



Contact block operation

When the rising pressure reaches the high point setting, contact B (1-2) opens and contact A (3-4) closes. The contacts remain actuated until the pressure falls back to the low point setting (high point setting - differential setting).

Environment characteristics				
Pressure switch type			ACW (bellows operated)	ADW (piston operated)
Conformity to standards			CE, IEC/EN 60947-5-1	
Product certifications			CSA, UL (Recognized), EAC	
Protective treatment			"TC"	
Materials			Zinc alloy case Phosphor bronze bellows	Zinc alloy case Pressure switches with drainage hole: Buna N diaphragm, steel piston, cast iron cylinder Pressure switches with Quad-Ring piston seal: Buna N diaphragm, Teflon and Viton seal, stainless steel piston and cylinder
Ambient air temperature (for operation)		°C	- 56...+ 85	- 30...+ 85
Fluids controlled			Air, oils and other non corrosive fluids, from - 73 to + 125°C	Oils and other fluids, from - 25 to + 120°C (for ADW5, ADW6, ADW7S1, ADW25 and ADW26) Oils (including synthetic) only, from - 30 to + 125°C (for ADW3, ADW4, ADW7, ADW23, ADW24 and ADW27)
Degree of protection			IP 65 conforming to IEC/EN 60529	
Fluid connection			G 1/4 (BSP female) conforming to NF E 03-005, ISO 228	G 3/8 (BSP female) conforming to NF E 03-005, ISO 228
Electrical connection	Terminals		1 tapped entry M20 x 1.5 mm for ISO cable gland. (for ACW●M119012, ACW●●M119012, ADW●M119012 and ADW●●M119012). 1 tapped entry for n° 13 (DIN Pg 13.5) cable gland (for ACW●M129012, ACW●●M129012, ADW●M129012 and ADW●●M129012).	
Contact block characteristics				
Rated operational current				
	Category AC-15		Ue 24 V 110 V 220 V 500 V	1 CO single-pole pressure switches Ie 5 A 5 A 3 A 1.4 A
	Category DC-13		Ue 24 V 110 V 220 V 500 V 600 V	2 CO single-pole pressure switches Ie 1.5 A 0.25 A — — —
Short-circuit protection			10 A cartridge fuse type gG	
Connection			Screw terminals Minimum clamping capacity: 1 x 1 mm² Maximum clamping capacity: 2 x 2.5 mm²	

Electromechanical pressure switches

XM range

For control circuits, ACW switches

Sizes 0.70 to 131 bar (10.15 to 1900 psi)

Adjustable differential, for regulation between 2 thresholds

Fluid connection G 1/4 (female)

Pressure switches ACW

Bellows operated



Adjustable range of switching point (PB) (Falling pressure)	0.07...0.70 bar (1.01...10.15 psi)	0.07...1.4 bar (1.01...20.3 psi)	0.07...5.2 bar (1.01...75.4 psi)	0.07...7.6 bar (1.01...110.2 psi)
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References

Switches with 1 CO single-pole contact

Electrical connection	With one tapped entry M20 x 1.5 mm for ISO cable gland	—	—	ACW5M119012	—
	With one tapped entry for n° 13 cable gland	—	ACW4M129012	ACW5M129012	ACW1M129012
Weight (kg)	1.750			1.550	

Switches with 2 CO single-pole contacts

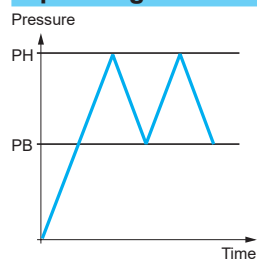
Electrical connection	With one tapped entry M20 x 1.5 mm for ISO cable gland	—	—	ACW25M119012	—
	With one tapped entry for n° 13 cable gland	ACW23M129012	—	—	ACW21M129012
Weight (kg)	1.750			1.550	

Complementary characteristics not shown under general characteristics (page 57)

Possible differential (add to PB to give PH)	1 CO switches	Min.	0.04 bar (0.58 psi)	0.10 bar (1.45 psi)	0.30 bar (4.35 psi)	0.50 bar (7.25 psi)
		Max.	0.34 bar (4.93 psi)	0.40 bar (5.8 psi)	1 bar (14.5 psi)	2 bar (29 psi)
	2 CO switches	Min.	0.05 bar (0.73 psi)	0.14 bar (2.03 psi)	0.41 bar (5.95 psi)	0.9 bar (13.05 psi)
		Max.	0.48 bar (6.96 psi)	0.70 bar (10.15 psi)	1.4 bar (20.3 psi)	2.8 bar (40.6 psi)
Maximum permissible pressure			2 bar (29 psi)		7 bar (101.5 psi)	17 bar (246.5 psi)
Fluids controlled			Air, oils and other non corrosive fluids, from - 73 to + 125°C (1)			
Mechanical life			1 x 10 ⁶ operating cycles (average value, depending on application)			
Cable entry, screw terminals	ACW●M119012, ACW2●M119012		1 tapped entry M20 x 1.5 mm for ISO cable gland. Clamping capacity 7 to 13 mm			
	ACW●M129012, ACW2●M129012		1 tapped entry for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5). Clamping capacity 9 to 13 mm			

(1) See "Component materials of units in contact with the fluid", page 55 .

Operating curve



— Adjustable value

Other versions

Contact block connections



Pressure switches with alternative tapped cable entries: NPT, etc. Please consult our Customer Care Centre.

Bellows operated



1.4...12 bar
(20.3...174 psi)

10...69 bar
(145...1000 psi)

References

Switches with 1 CO single-pole contact

ACW8M119012

—

ACW8M129012

ACW7M129012

1.550

2.100

Switches with 2 CO single-pole contacts

ACW28M119012

—

—

—

1.550

—

Complementary characteristics not shown under general characteristics (page 57)

0.70 bar (10.15 psi)

5.9 bar (85.6 psi)

2 bar (29 psi)

10 bar (145 psi)

1 bar (14.5 psi)

9.3 bar (134.9 psi)

2.8 bar (40.6 psi)

14 bar (203 psi)

17 bar (246.5 psi)

140 bar (2030 psi)

Air, oils and other non corrosive fluids, from - 73 to + 125°C (1)

1 x 10⁶ operating cycles (average value, depending on application)

1 tapped entry M20 x 1.5 mm for ISO cable gland. Clamping capacity 7 to 13 mm

1 tapped entry for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5). Clamping capacity 9 to 13 mm

Other versions

Pressure switches with alternative cable entries: NPT, etc. Please consult our Customer Care Centre.

Electromechanical pressure switches

XM range

For control circuits, ADW switches

Sizes 69 to 340 bar (1000 to 4930 psi)

Adjustable differential, for regulation between 2 thresholds

Fluid connection G 3/8 (female)

Pressure switches ADW

Piston operated, with drainage hole ⁽¹⁾



Adjustable range of switching point (PH) (Rising pressure)	9.3...69 bar (135...1000 psi)	28...210 bar (406...3045 psi)	38...340 bar (551...4930 psi)
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References

Switches with 1 CO single-pole contact

Electrical connection	With one tapped entry for n° 13 cable gland	ADW3M129012	ADW4M129012	ADW7M129012
Weight (kg)		1.880		

Complementary characteristics not shown under general characteristics (page 57)

Possible differential (subtract from PH to give PB)	1 CO switches	Min.	2.4 bar (34.8 psi)	6.9 bar (100 psi)	8.6 bar (124.7 psi)
		Max.	9.3 bar (135 psi)	28 bar (406 psi)	38 bar (551 psi)
Maximum permissible pressure			690 bar (10,000 psi)		
Fluids controlled			Oils (including synthetic) only, from - 30°C to + 125°C (2) (3)		
Mechanical life			1 x 10 ⁶ operating cycles (average value, depending on application)		
Cable entry, screw terminals	ADW●M129012		1 tapped entry for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5). Clamping capacity 9 to 13 mm		

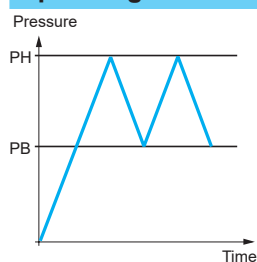
(1) Since it is normal for piston type pressure switches (not incorporating a piston seal) to have a slight oil leakage past the piston, a drain hole through the cylinder wall is incorporated.

To avoid back pressure, this hole should never be plugged. If for any reason this oil leakage is undesirable, use pressure switches incorporating a Quad-Ring piston seal.

(2) See "Component materials of units in contact with the fluid", page 55.

(3) Only for control of group 2 fluids, in accordance with directive 97/23/EEC.

Operating curve



— Adjustable value

Other versions

Contact block connections



Pressure switches with alternative tapped cable entries: NPT, etc. Please consult our Customer Care Centre.

Pressure switches ADW

Piston operated, with Quad-Ring piston seal



Adjustable range of switching point (PH)
(Falling pressure)

9.3...69 bar
(135...1000 psi)

28...210 bar
(406...3045 psi)

References

Switches with 1 CO single-pole contact

Electrical connection	With one tapped entry M20 x 1.5 mm for ISO cable gland	—	ADW6M119012
	With one tapped entry for n° 13 cable gland	ADW5M129012	ADW6M129012
Weight (kg)	1.880		

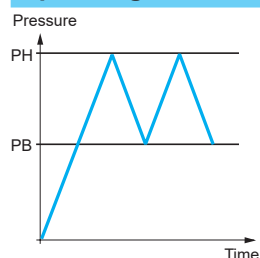
Complementary characteristics not shown under general characteristics (page 57)

Possible differential (subtract from PH to give PB)	1 CO switches	Min./max. at low setting	4.8/6.9 bar (69.6/100 psi)	14/21 bar (203/304.5 psi)
		Min./max. at low setting	8.6/10 bar (124.7/145 psi)	28/34 bar (406/493 psi)
Maximum permissible pressure	690 bar (10,000 psi)			
Fluids controlled	Oils and other fluids, from - 25°C to + 120°C (1) (2)			
Mechanical life	1 x 10 ⁶ operating cycles (average value, depending on application)			
Cable entry, screw terminals	ADW●M119012	1 tapped entry M20 x 1.5 mm for ISO cable gland. Clamping capacity 7 to 13 mm		
	ADW●M129012	1 tapped entry for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5). Clamping capacity 9 to 13 mm		

(1) See "Component materials of units in contact with the fluid", page 55 .

(2) Only for control of group 2 fluids, in accordance with directive 97/23/EEC.

Operating curve



— Adjustable value

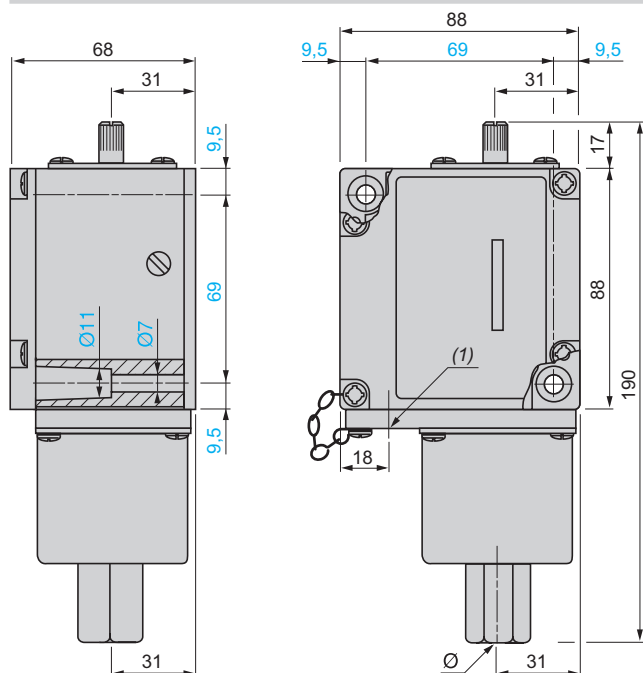
Other versions

Contact block connections



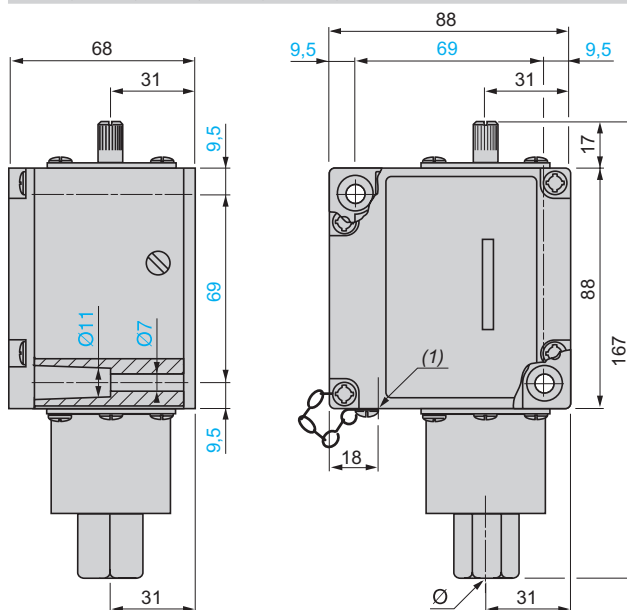
Pressure switches with alternative tapped cable entries: NPT, etc. Please consult our Customer Care Centre.

ACW4 and ACW23



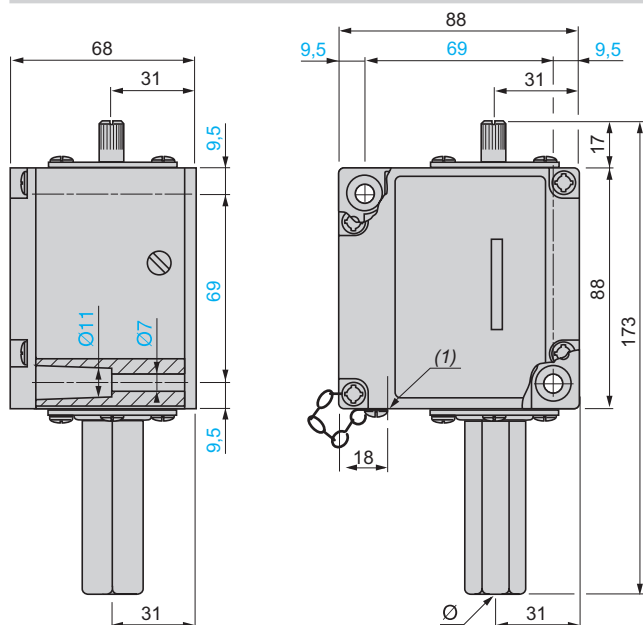
(1) Tapped entry for n° 13 or ISO M20 cable gland, depending on model
Ø: G 1/4 (female)

ACW1, ACW5, ACW8, ACW9, ACW21, ACW25 and ACW28



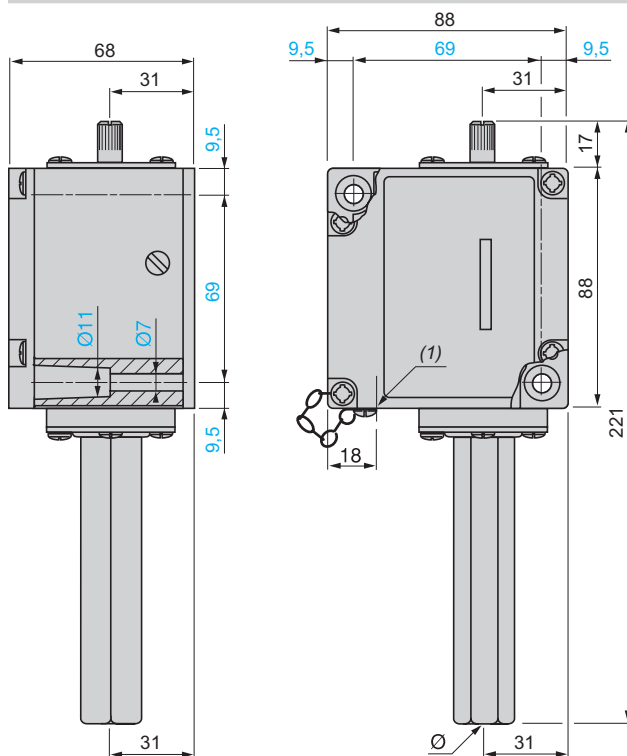
(1) Tapped entry for n° 13 or ISO M20 cable gland, depending on model
Ø: G 1/4 (female)

ACW2



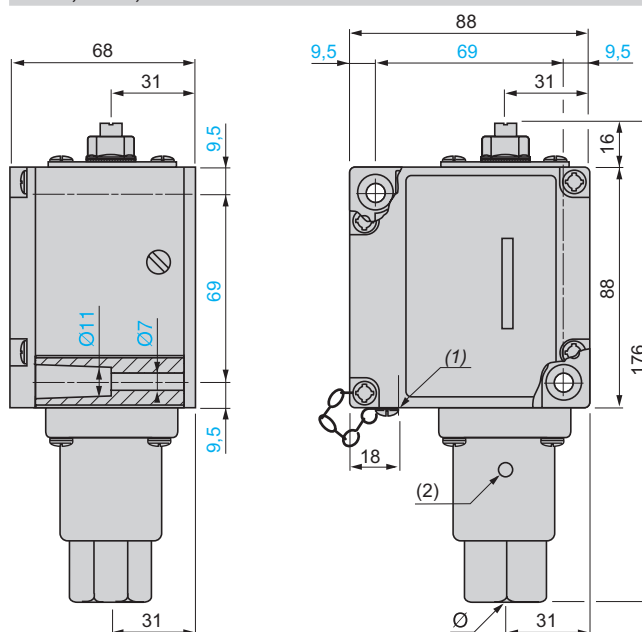
(1) Tapped entry for n° 13 or ISO M20 cable gland, depending on model
Ø: G 1/4 (female)

ACW7



(1) Tapped entry for n° 13 or ISO M20 cable gland, depending on model
Ø: G 1/4 (female)

ADW3, ADW4, and ADW7

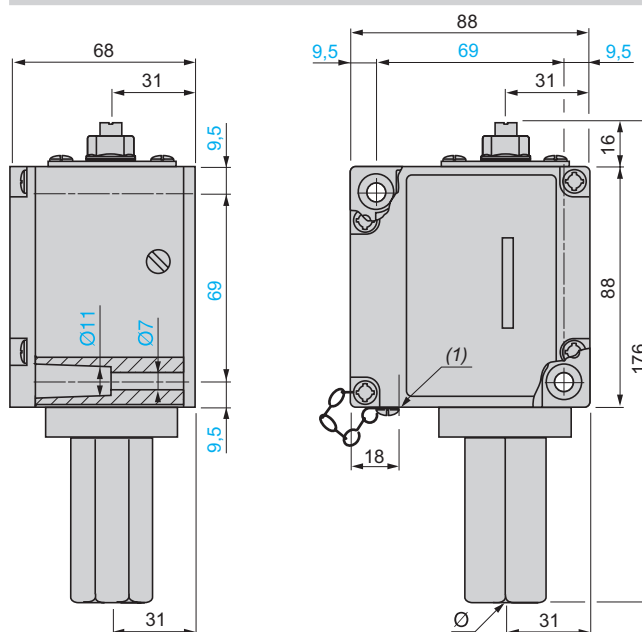


(1) Tapped entry for n° 13 or ISO M20 cable gland, depending on model

(2) Drainage hole, tapped G 1/8 (female)

Ø: G 3/8 (female)

ADW6



(1) Tapped entry for n° 13 or ISO M20 cable gland, depending on model

Ø: G 3/8 (female)

Electromechanical pressure switches

XM range

For control circuits, XMX and XMA switches

Presentation

Pressure switches XMX and XMA are switches for control circuits, with an adjustable differential.

They are used to control the pressure of water and air, up to 25 bar.

Equipment fitted to the various models

Location of setting screw

Pressure switches XMX have an internal setting screw that is only accessible after removing the cover.

Pressure switches XMA have an external setting screw that is accessible without removing the cover.

Case

Pressure switches XMX have a black opaque case.

Pressure switches XMA can have a transparent case or a black opaque case.

Setting

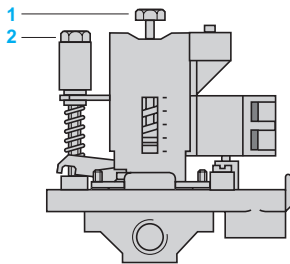
When setting pressure switches XMX or XMA, adjust the switching point on rising pressure (PH) first and then the switching point on falling pressure (PB).

Switching point on rising pressure

The switching point on rising pressure (PH) is set by adjusting screw-nut **1**.

Switching point on falling pressure

The switching point on falling pressure (PB) is set by adjusting screw-nut **2**.



Environment characteristics			
Conformity to standards			CE, IEC/EN 60947-5-1
Product certifications			UL, CSA, CCC, EAC
Protective treatment			"TC"
Ambient air temperature	For operation	°C	- 25...+ 70 for 6 and 25 bar versions - 25...+ 55 for 12 bar version
	For storage		- 40...+ 70
Fluids controlled		°C	Air, fresh water, sea water: 0...+ 70°C for 6 and 25 bar versions 0...+ 55°C for 12 bar version
Materials	Case (black opaque cover)		polycarbonate impregnated with Lexan 500R fibreglass
	Case (transparent cover)		polycarbonate impregnated with Lexan 123 fibreglass
	Component materials in contact with fluid		chromated zinc alloy (fluid entry), canvas covered nitrile (diaphragm)
Operating position			All positions
Electric shock protection			Class I conforming to IEC 536
Degree of protection			IP 54 conforming to IEC/EN 60529
Operating rate		Op. cycles/h	600
Repeat accuracy			< 3.5%
Fluid connection			G 1/4 or 4 x G 1/4 (BSP female) conforming to NF E 03-005, ISO 228
Electrical connection			Terminals 2 tapped entries for n° 13 (DIN Pg 13.5) cable gland
Contact block characteristics			
Rated operational characteristics			~ AC-15, B300 (Ue = 240 V, Ie = 1.5 A; Ue = 120 V, Ie = 3 A) --- DC-13, R300 (Ue = 250 V, Ie = 0.1 A)
Rated insulation voltage		V	Ui = 500 conforming to IEC/EN 60947-1
Rated impulse withstand voltage		kV	U imp = 6 conforming to IEC/EN 60947-1
Type of contacts			1 CO single-pole contact, snap action
Terminal referencing			Conforming to CENELEC EN 50013
Short-circuit protection			10 A cartridge fuse type gG (gl)
Connection			Screw clamp terminals Minimum clamping capacity: 1 x 1 mm ² Maximum clamping capacity: 2 x 2.5 mm ²
Electrical durability			AC supply 50/60Hz, Ith = 10 A Inductive circuit, utilisation category AC-15, 3 A/240 V: 1 million operating cycles

Electromechanical pressure switches

XMX switches for control circuits

Sizes 6 to 25 bar (87 to 362.5 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 1 CO single-pole contact

Pressure switches XMX (internal setting screw)



Adjustable range of switching point (PH) (Rising pressure)	1...6 bar (14.5...87 psi)	1.3...12 bar (18.85...174 psi)	3.5...25 bar (50.75...362.5 psi)	1...6 bar (14.5...87 psi)
Fluid connection	G 1/4 (female)			4 x G 1/4 (female)

References

Switches with black opaque cover

Fluids controlled	Air, fresh water, sea water (1)	XMxA06L2135	XMxA12L2135	XMxA25L2135	XMxA06L2435
Weight (kg)		0.430		0.650	0.430

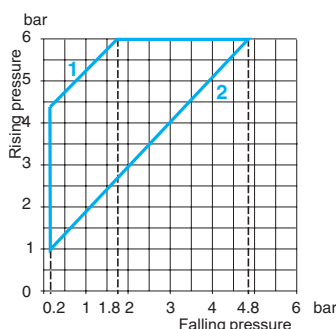
Complementary characteristics not shown under general characteristics (page 65)

Possible differential (subtract from PH to give PB)	Min. at low setting	0.8 bar (11.6 psi)	1 bar (14.5 psi)	3.4 bar (49.3 psi)	0.8 bar (11.6 psi)
	Min. at high setting	1.2 bar (17.4 psi)	1.7 bar (24.6 psi)	4.5 bar (65.2 psi)	1.2 bar (17.4 psi)
	Max. at high setting	4.2 bar (60.9 psi)	8.4 bar (121.8 psi)	20 bar (290 psi)	4.2 bar (60.9 psi)
Maximum permissible pressure	Per cycle	7.5 bar (108.7 psi)	15 bar (217.5 psi)	31.25 bar (453.1 psi)	7.5 bar (108.7 psi)
	Accidental	13.5 bar (195.7 psi)	27 bar (391.5 psi)	56.25 bar (815.6 psi)	13.5 bar (195.7 psi)
Destruction pressure		30 bar (435 psi)		100 bar (1450 psi)	30 bar (435 psi)
Mechanical life		1 x 10 ⁶ operating cycles			
Cable entry		2 entries tapped for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5)			
Pressure switch type		Diaphragm			

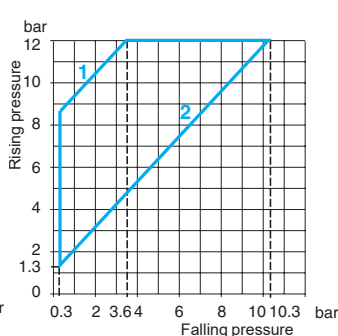
(1) Component materials of units in contact with the fluid, see page 55.

Operating curves

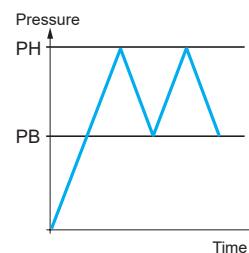
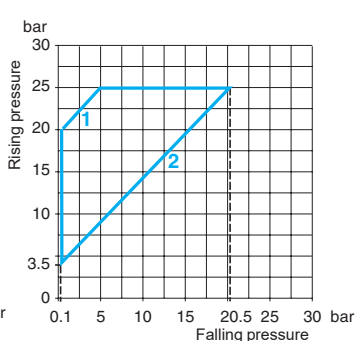
XMxA06.....



XMxA12.....



XMxA25.....



— Adjustable value

- 1 Maximum differential
- 2 Minimum differential

- 1 Maximum differential
- 2 Minimum differential

- 1 Maximum differential
- 2 Minimum differential

Connections



Other versions

Pressure switches with alternative tapped cable entries: ISO, NPT, etc. Please consult our Customer Care Centre.

Electromechanical pressure switches

XMA switches for control circuits

Sizes 6 to 25 bar (87 to 362.5 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 1 CO single-pole contact

Pressure switches XMA (external setting screw)



Adjustable range of switching point (PH) (Rising pressure)	1...6 bar (14.5...87 psi)	1.3...12 bar (18.85...174 psi)	3.5...25 bar (50.75...362.5 psi)
Fluid connection	G 1/4 (female)		

References

Switches with transparent cover			
Fluids controlled	Air, fresh water, sea water (1)	XMAV06L2135	XMAV12L2135
Weight (kg)		0.430	0.650

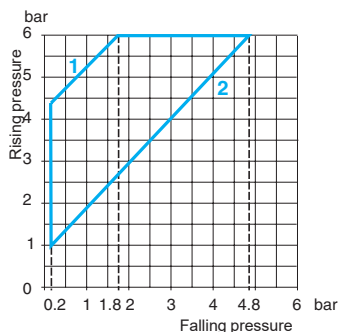
Complementary characteristics not shown under general characteristics (page 65)

Possible differential (subtract from PH to give PB)	Min. at low setting	0.8 bar (11.6 psi)	1 bar (14.5 psi)	3.4 bar (49.3 psi)
	Min. at high setting	1.2 bar (17.4 psi)	1.7 bar (24.6 psi)	4.5 bar (65.2 psi)
	Max. at high setting	4.2 bar (60.9 psi)	8.4 bar (121.8 psi)	20 bar (290 psi)
Maximum permissible pressure	Per cycle	7.5 bar (108.7 psi)	15 bar (217.5 psi)	31.25 bar (453.1 psi)
	Accidental	13.5 bar (195.7 psi)	27 bar (391.5 psi)	56.25 bar (815.6 psi)
Destruction pressure		30 bar (435 psi)		100 bar (1450 psi)
Mechanical life		1 x 10 ⁶ operating cycles		
Cable entry		2 entries tapped for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5)		
Pressure switch type		Diaphragm		

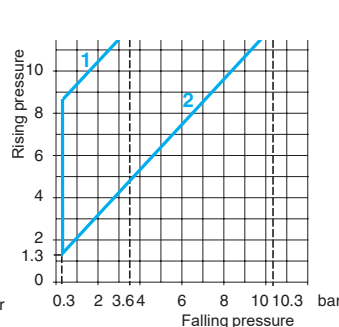
(1) Component materials of units in contact with the fluid, see page 55.

Operating curves

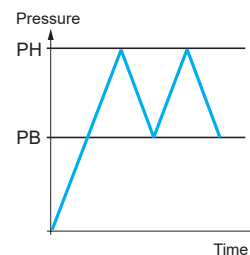
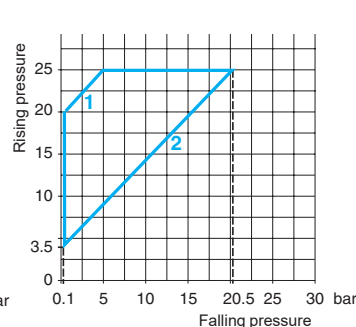
XMA06.....



XMA12.....



XMA25.....



— Adjustable value

- 1 Maximum differential
- 2 Minimum differential

- 1 Maximum differential
- 2 Minimum differential

- 1 Maximum differential
- 2 Minimum differential

Connections



Other versions

Pressure switches with alternative tapped cable entries: ISO, NPT, etc. Please consult our Customer Care Centre.

Electromechanical pressure switches
XM range
XMX and XMA switches for control circuits
Accessories and replacement parts



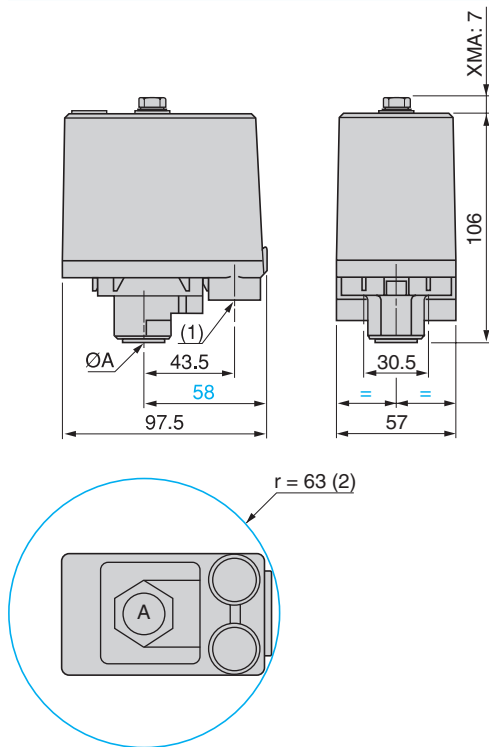
XMAZL001



DE9PM1201

Description	Reference	Weight kg
Fixing bracket	XMAZL001	0.035
13P cable gland With anti pull-out ring (for cable Ø 6...9 mm)	DE9PM1201	0.005

XMxA06L2135, XMxA12L2135
XMAV06L2135, XMAV12L2135

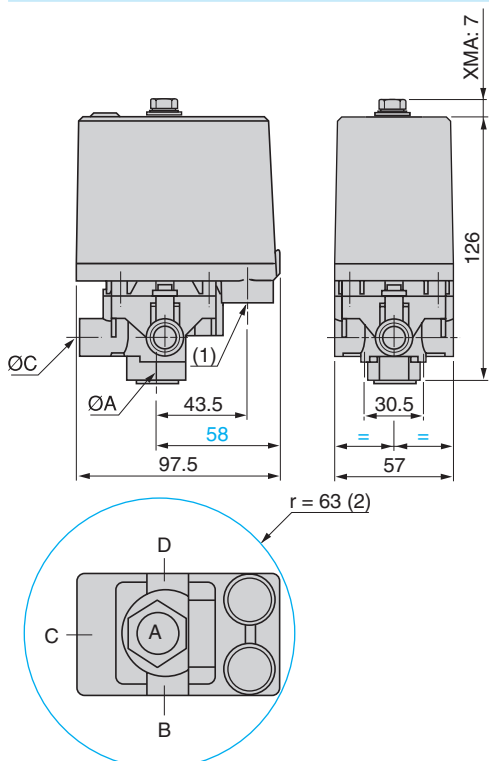


ØA = G 1/4 (female)

(1) 2 tapped entries for n° 13 cable gland

(2) Minimum clearance zone for screwing-on pressure switch at point A

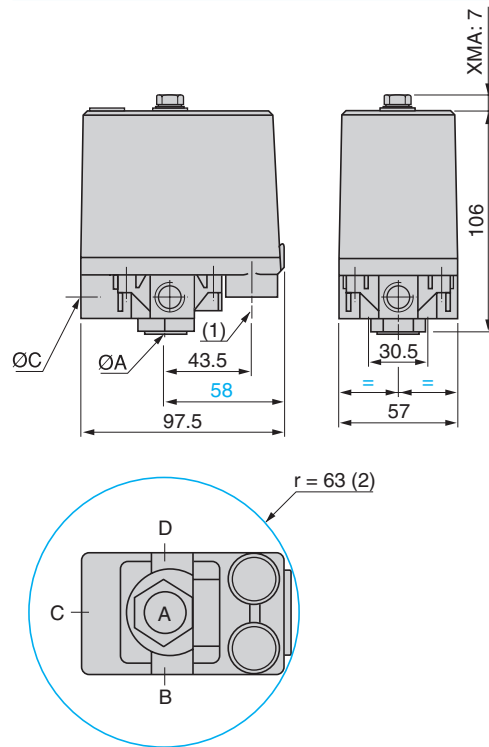
XMxA25L2135
XMAV25L2135



XM●●25L2135: ØA only = G 1/4 (female)

XM●●25L2435: ØA = ØB = ØC = ØD = G 1/4 (female)

XMxA06L2435

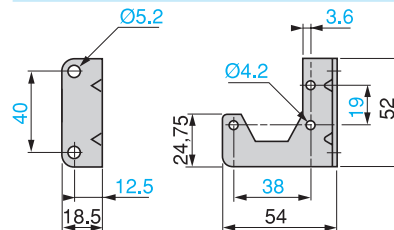


ØA = ØB = ØC = ØD = G 1/4 (female)

(1) 2 tapped entries for n° 13 cable gland

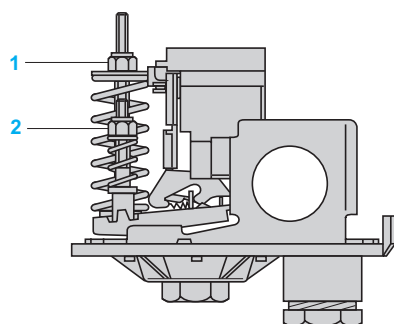
(2) Minimum clearance zone for screwing-on pressure switch at point A

Fixing bracket
XMAZL001



(1) 2 tapped entries for n° 13 cable gland

(2) Minimum clearance zone for screwing-on pressure switch at point A



Presentation

FSG and FYG pressure switches are intended for use in power circuits to control the pressure of water, up to 10.5 bar.

They feature an adjustable differential, for regulation between 2 thresholds.

Setting

When setting the pressure switch, adjust the switching point on rising pressure (PH) first and then the switching point on falling pressure (PB).

Switching point on rising pressure

The switching point on rising pressure (PH) is set by adjusting screw-nut **1**.

Switching point on falling pressure

The switching point on falling pressure (PB) is set by adjusting screw-nut **2**.

Environment characteristics

Pressure switch type		FSG● and FYG●	
Conformity to standards		CE, IEC/EN 60730	
Protective treatment		Standard version: "TC"	
Ambient air temperature	For operation	°C	0...+ 45.
	For storage	°C	- 30...+ 80
Fluids controlled		Fresh water, sea water (0...+ 70°C)	
Materials	Case	Polystyrene, resistant to mechanical impact	
	Component materials in contact with fluid	Nylon 6/6, zinc plated steel, nitrile	
Operating position		All positions	
Electric shock protection		Class I conforming to IEC 536	
Degree of protection conforming to IEC/EN 60529		IP 20	
Operating rate		Op. cycles/h	600
Repeat accuracy		< 2%	
Fluid connection	F●G 2, FYG●2	G 1/4 (BSP female) conforming to NF E 03-005, ISO 228	
	F●G 9	R 1/4 (BSP male) conforming to NF E 03-004, ISO 7	
Electrical connection		FSG● and FYG●	Terminals. 2 cable entries, with grommet

Contact block characteristics

Rated operational characteristics		Ie = 10 A, Ue = ~ 250 V conforming to EN 60730-1	
Power ratings of controlled motors	Voltage	~ 2-pole 1-phase	~ 2-pole 3-phase
	110 V	0.75 kW (1 HP)	1.1 kW (1.5 HP)
	230 V	1.5 kW (2 HP)	2.2 kW (3 HP)
	400 V	1.5 kW (2 HP)	2.2 kW (3 HP)
Rated insulation voltage conforming to IEC/EN 60947-1		Ui = 500	
Rated impulse withstand voltage conforming to IEC/EN 60947-1		U imp = 6	
Type of contacts		1 2-pole 2 NC (4 terminal) contact, snap action	
Short-circuit protection		20 A cartridge fuse type gG	
Connection		Screw clamp terminals.	
	Minimum clamping capacity	mm²	1 x 1
	Maximum clamping capacity	mm²	2 x 2
Electrical durability at an operating rate of 600 operating cycles/hour		100 000	

Electromechanical pressure switches

XM range

For power circuits, FSG switches

Size 4.6 bar (66.7 psi), adjustable differential, for regulation between 2 thresholds. Switches with 2-pole 2 NC contact.

Degree protection IP 20

Fluid connection	G 1/4 (female)	R 1/4 (male)
		

Adjustable range of switching point (PH) (Rising pressure)	1.4...4.6 bar (20.3...66.7 psi)
Degree of protection conforming to IEC/EN 60529	IP 20

References

Fluids controlled	Fresh water, sea water, from 0°C to + 70°C (1)	FSG2	FSG9
Weight (kg)	0.340		

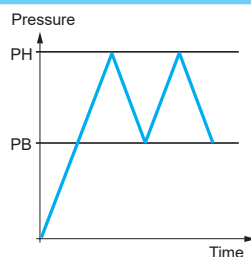
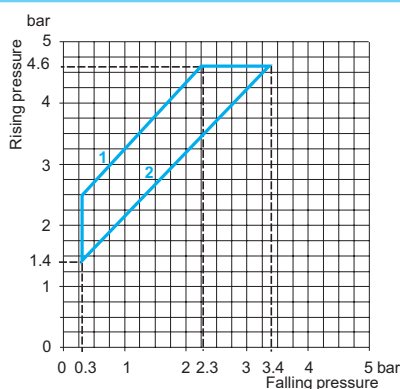
Complementary characteristics not shown under general characteristics (page 65)

Possible differential (subtract from PH to give PB)	Max. at low setting	2.1 bar (30.45 psi)
	Max. at middle setting	2.2 bar (31.9 psi)
	Max. at high setting	2.3 bar (33.35 psi)
	Min. at low setting	1 bar (14.5 psi)
	Min. at middle setting	1.1 bar (15.95 psi)
	Min. at high setting	1.2 bar (17.4 psi)
Maximum permissible pressure	Per cycle	5.75 bar (83.38 psi)
	Accidental	8 bar (116 psi)
Destruction pressure	20 bar (290 psi)	
Mechanical life	1 x 10 ⁶ operating cycles	
Cable entry	2 cable entries, with grommet	
Clamping capacity	—	
Pressure switch type	Diaphragm	

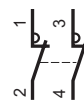
(1) Component materials of units in contact with the fluid, see page 55.

(2) Variant: for a G 3/8 female fluid entry that pivots throughout 360°, select the FSG2NEG.

Operating curves



Connections



Electromechanical pressure switches

XM range

For power circuits, FYG switches

Sizes 7 and 10.5 bar (101.5 and 152.3 psi), adjustable differential, for regulation between 2 thresholds. Switches with 2-pole 2 NC contact. Degree of protection IP 20

Fluid connection

G 1/4 (female)



Adjustable range of switching point (PH)

(Rising pressure)

2.8...7 bar (40.6...101.5 psi)

5.6...10.5 bar (81.2...152.3 psi)

Degree of protection

conforming to IEC/EN 60529

IP 20

References

Fluids controlled

Fresh water, sea water, from
0°C to +70°C (1)

FYG22 (2)

FYG32 (3)

Weight (kg)

0.340

Complementary characteristics not shown under general characteristics (page 65)

Possible differential

(subtract from PH to give PB)

Max. at low setting

2.3 bar (33.35 psi)

3 bar (43.5 psi)

Max. at middle setting

2.5 bar (36.25 psi)

3.2 bar (46.4 psi)

Max. at high setting

2.7 bar (39.15 psi)

3.4 bar (49.3 psi)

Min. at low setting

1.2 bar (17.4 psi)

1.9 bar (27.55 psi)

Min. at middle setting

1.4 bar (20.3 psi)

2.1 bar (30.45 psi)

Min. at high setting

1.6 bar (23.2 psi)

2.3 bar (33.35 psi)

Maximum permissible

pressure

Per cycle

8.75 bar (126.9 psi)

13 bar (188.5 psi)

Accidental

15 bar (217.5 psi)

15 bar (217.5 psi)

Destruction pressure

20 bar (290 psi)

20 bar (290 psi)

Mechanical life

1 x 10⁶ operating cycles

Cable entry

2 cable entries, with grommet

Pressure switch type

Diaphragm

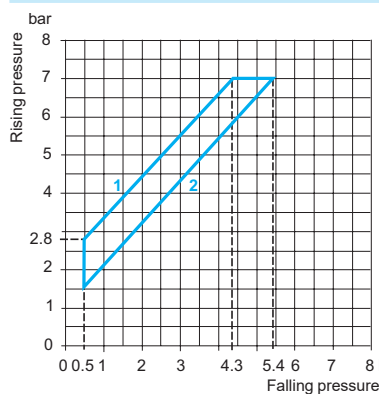
(1) Component materials of units in contact with the fluid, see page 55 .

(2) Variant: for a 2.8 to 7 bar, IP 20, pressure switch with R 1/4 (male) fluid entry, select the **FYG29**.

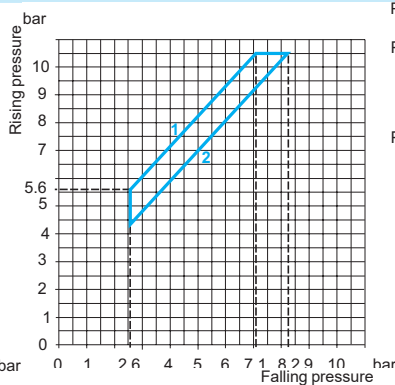
(3) Variant: for a 5.6 to 10.5 bar, IP 20, pressure switch with R 1/4 (male) fluid entry, select the **FYG39**.

Operating curves

FYG22



FYG32



Pressure

PH

PB

Time



1 Maximum differential

2 Minimum differential

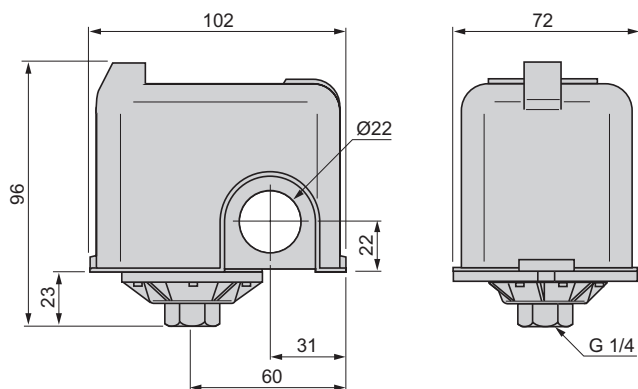
1 Maximum differential

2 Minimum differential

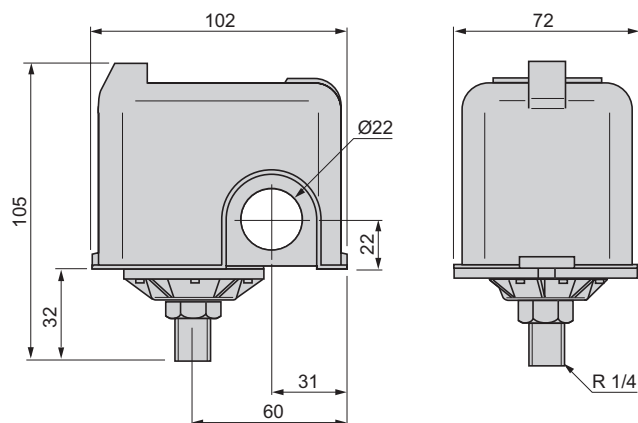
— Adjustable value

Dimensions

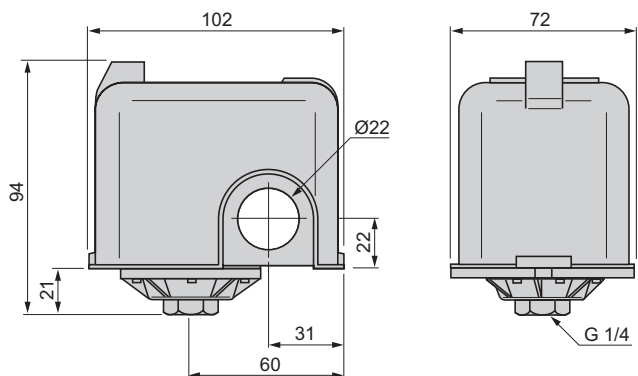
FSG2



FSG9



FYG22, FYG32



Presentation

XMP pressure switches are switches for power circuits (direct switching), with an adjustable differential.

They are used to control the pressure of water and air, up to 25 bar.

Equipment fitted to the various models

Case

XMP Pressure switches, depending on the model, include:

- 3 types of case:
 - bare case,
 - case with On/Off knob (black): used as a switch for starting and stopping the installation,
 - case with reset knob (yellow): necessary when the safety requirements of the system include tripping in the event of overpressure. Resetting is not automatic on return to normal pressure, and it can only be achieved by manually turning the "Reset" knob.
- 2 degrees of protection:
 - IP 54
 - IP 65

Decompression valve

Depending on the model, 2 types of decompression valve can be fitted to XMP pressure switches:

- Straight, instant connection, decompression valve (connection by Ø 6 mm plastic tube).
- Straight, olive connection, decompression valve (connection by Ø 6 mm plastic or metal tube).

Setting

When setting XMP pressure switches, adjust the switching point on rising pressure (PH) first and then the switching point on falling pressure (PB).

Switching point on rising pressure

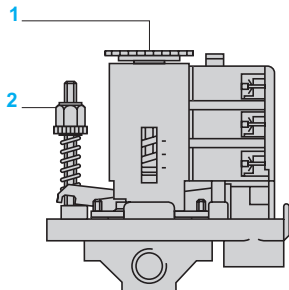
The switching point on rising pressure (PH) is set by adjusting the screw-nut or knurled knob **1**.

Tighten either the nut or knurled knob **1** to increase the high point switching value.

Switching point on falling pressure

The switching point on falling pressure is set by adjusting screw-nut **2**.

Tighten nut **2** to reduce the low point switching value (increase in differential).



Environment characteristics				
Conformity to standards		CE, IEC/EN 60947-4-1		
Product certifications		EAC		
Ambient air temperature	°C	For operation: - 25...+ 70 For storage: - 40...+ 70		
Fluids controlled		Air, fresh water, sea water (0...+ 70°C)		
Materials		Case: polyamide impregnated with fibreglass Component materials in contact with fluid: chromated zinc alloy (fluid entry), canvas covered nitrile (diaphragm)		
Operating position		All positions		
Vibration resistance		3 gn (10...500 Hz) conforming to IEC 60068-2-6		
Shock resistance		50 gn, conforming to IEC 60068-2-27		
Electric shock protection		Class I conforming to IEC 60536		
Degree of protection		IP 54 conforming to IEC/EN 60529 or IP 65 for universal model		
Operating rate	Op. cycles/h	≤ 600		
Repeat accuracy		< 3.5%		
Fluid connection		G 1/4, 4 x G 1/4 or G 3/8 (BSP female) conforming to NF E 03-005, ISO 228		
Electrical connection		2 tapped entries for n° 13 (DIN Pg 13.5) cable gland		
Contact block characteristics				
Rated insulation voltage	V	Ui = 500 conforming to IEC/EN 60947-1		
Rated impulse withstand voltage	V	U imp = 6 kV conforming to IEC/EN 60947-1		
Type of contacts		One 2-pole 2 NC or 3-pole 3 NC contact, snap action		
Resistance across terminals	mΩ	≤ 25 conforming to NF C 93-050 method A or IEC 255-7 category 3		
Terminal referencing		Conforming to CENELEC EN 50013		
Short-circuit protection		Cartridge fuse type Am		
Connection		Screw clamp terminals. Minimum clamping capacity: 2 x 4 mm²		
Electrical durability Operating rate: 600 operating cycles/hour Load factor: 0.4		Power	Number of operating cycles	
		kW	~ 400 V, 3-phase	~ 230 V, 3-phase
		1.5	1 000 000	600 000
		2.2	700 000	–
		3	500 000	–

Electromechanical pressure switches

XMP switches, IP 54

Size 6 bar (87 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 2-pole 2 NC or 3-pole 3 NC contact

Fluid connection	G 1/4 (female)
------------------	----------------



1



2

Adjustable range of switching point (PH) (Rising pressure)	1...6 bar (14.5...87 psi)	
Type of contact	2-pole 2 NC	3-pole 3 NC

References (1)

Switches without decompression valve

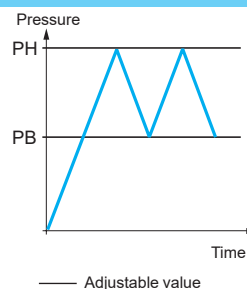
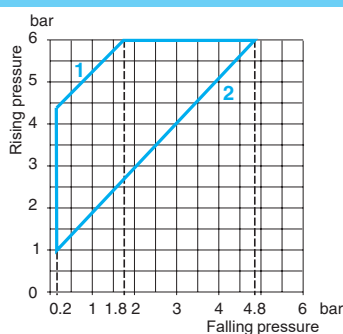
Bare case 1	XMPA06B2131	XMPA06C2131
Case with reset knob 2	XMPB06B2131	—
Case with On/Off knob 2	XMPC06B2131	—
Weight (kg)	0.430	

Complementary characteristics not shown under general characteristics (page 75)

Possible differential (subtract from PH to give PB)	Min. at low setting	0.8 bar (11.6 psi)
	Min. at high setting	1.2 bar (17.4 psi)
	Max. at high setting	4.2 bar (60.9 psi)
Destruction pressure	30 bar (435 psi)	
Mechanical life	1 million operating cycles	
Cable entry	2 entries tapped for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5)	
Pressure switch type	Diaphragm	

(1) References for individually packaged switches. Also available packaged in lots of 10.
To order, add the letter **C** to the reference selected from above. Example: reference for lot of 10 pressure switches **XMPA06B2131** in one package becomes **XMPA06B2131C**.

Operating curves



- 1 Maximum differential
- 2 Minimum differential

Electromechanical pressure switches

XMP switches, IP 54

Size 6 bar (87 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 2-pole 2 NC or 3-pole 3 NC contact

G 3/8 (female)



1



2

1...6 bar (14.5...87 psi)

2-pole 2 NC

3-pole 3 NC

References

Switches without decompression valve

XMPA06B2242

XMPA06C2242

-

-

-

-

0.430

Complementary characteristics not shown under general characteristics (page 75)

0.8 bar (11.6 psi)

1.2 bar (17.4 psi)

4.2 bar (60.9 psi)

30 bar (435 psi)

1 million operating cycles

2 entries incorporating n° 13 plastic cable gland (DIN Pg 13.5)

Clamping capacity 9 to 13 mm

Diaphragm

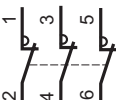
Other versions

Pressure switches not listed above, comprising the equipment proposed for the choice of reference. Please consult our Customer Care Centre.

Terminal connections

XMP●●●B●●●●

XMP●●●C●●●●



Electromechanical pressure switches

XMP switches, IP 54

Size 12 to 25 bar (174 to 362.5 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 2-pole 2 NC or 3-pole 3 NC contact

Fluid connection	G 1/4 (female)
------------------	----------------



1



2

Adjustable range of switching point (PH) (Rising pressure)	1.3...12 bar (18.85...174 psi)	
Type of contact	2-pole 2 NC	3-pole 3 NC

References (1)

Switches without decompression valve

Bare case 1	XMPA12B2131	XMPA12C2131
Case with On/Off knob 2	XMPC12B2131	-
Weight (kg)	0.430	

Switches with straight decompression valve, instant connection

Case with On/Off knob 2	-	XMPE12C2131
Weight (kg)	0.450	

Switches with straight decompression valve, olive connection

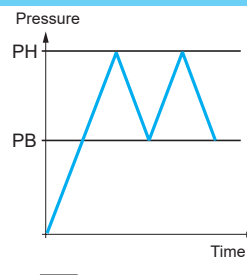
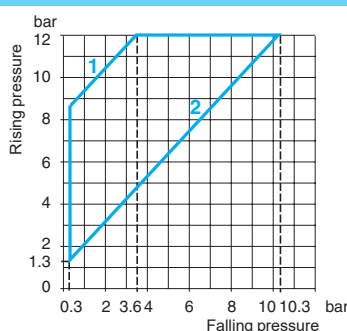
Case with On/Off knob 2	-	XMPR12C2131
Weight (kg)	0.450	

Complementary characteristics not shown under general characteristics (page 75)

Possible differential (subtract from PH to give PB)	Min. at low setting	1 bar (14.5 psi)
	Min. at high setting	1.7 bar (24.6 psi)
	Max. at high setting	8.4 bar (121.8 psi)
Destruction pressure	30 bar (435 psi)	
Mechanical life	1 million operating cycles	
Cable entry	2 entries tapped for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5)	
Pressure switch type	Diaphragm	

(1) References for individually packaged switches. Also available packaged in lots of 10.
To order, add the letter C to the reference selected from above. Example: reference for lot
of 10 pressure switches XMPA12B2131 in one package becomes XMPA12B2131C.

Operating curves



- 1 Maximum differential
- 2 Minimum differential

Electromechanical pressure switches

XMP switches, IP 54

Size 12 to 25 bar (174 to 362.5 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 2-pole 2 NC or 3-pole 3 NC contact

4 x G 1/4 (female)	G 3/8 (female)	G 1/4 (female)
--------------------	----------------	----------------



2



1



2



1

1.3...12 bar (18.85...174 psi)			3.5...25 bar (50.75...362.5 psi)
3-pole 3 NC	2-pole 2 NC	3-pole 3 NC	2-pole 2 NC

References

Switches without decompression valve

-	XMPA12B2242	XMPA12C2242	XMPA25B2131
-	-	XMPC12C2242	-
0.430			0.650

Switches with straight decompression valve, instant connection

-	-	XMPD12C2242	-
XMPE12C2431	-	XMPE12C2242	-
0.450			-

Switches with straight decompression valve, olive connection

-			
-			

Complementary characteristics not shown under general characteristics (page 75)

1 bar (14.5 psi)		3.4 bar (49.3 psi)
1.7 bar (24.6 psi)		4.5 bar (65.2 psi)
8.4 bar (121.8 psi)		20 bar (290 psi)
30 bar (435 psi)		100 bar (1450 psi)
1 million operating cycles		1 million operating cycles
2 entries tapped for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5)	2 entries incorporating n° 13 plastic cable gland (DIN Pg 13.5) Clamping capacity 9 to 13 mm	2 entries tapped for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5)
Diaphragm		

Other versions

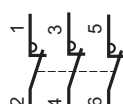
Pressure switches not listed above, comprising the equipment proposed for the choice of reference. Please consult our Customer Care Centre.

Terminal connections

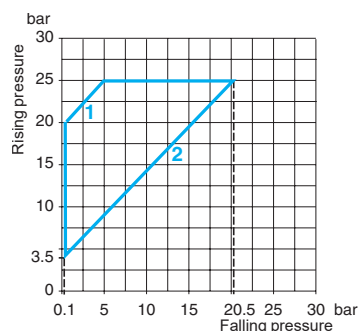
XMP●●●B●●●●



XMP●●●C●●●●



Operating curves



- 1 Maximum differential
- 2 Minimum differential

Electromechanical pressure switches

XMP switches, IP 65
Sizes 6 to 12 bar (87 to 174 psi)
Adjustable differential, for regulation between 2 thresholds
Switches with 2-pole 2 NC or 3-pole 3 NC contact

Fluid connection	G 1/4 (female)
------------------	----------------



Adjustable range of switching point (PH) (Rising pressure)	1.3...12 bar (18.85...174 psi)	
Type of contact	2-pole 2 NC	3-pole 3 NC

References

Switches with straight decompression valve, olive connection

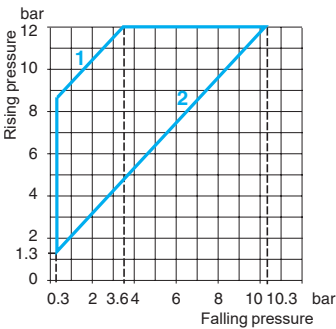
Case with On/Off knob	XMPR12B2133	XMPR12C2133
Weight (kg)	0.450	

Complementary characteristics not shown under general characteristics (page 75)

Possible differential (subtract from PH to give PB)	Min. at low setting	1 bar (14.5 psi)
	Min. at high setting	1.7 bar (24.6 psi)
	Max. at high setting	8.4 bar (121.8 psi)
Destruction pressure	30 bar (435 psi)	
Mechanical life	1 million operating cycles	
Cable entry	2 entries tapped for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5)	
Adjustment of high setting point (PH)	By screw-nut	
Pressure switch type	Diaphragm	

Operating curves

XMPR12●●●●●



- 1 Maximum differential
- 2 Minimum differential

4 x G 1/4 (female)



1.3...12 bar (18.85...174 psi)

2-pole 2 NC

3-pole 3 NC

References

Switches with straight decompression valve, olive connection

XMPR12B2433

XMPR12C2433

0.450

Complementary characteristics not shown under general characteristics (page 75)

- 1 bar (14.5 psi)
- 1.7 bar (24.6 psi)
- 8.4 bar (121.8 psi)
- 30 bar (435 psi)
- 1 million operating cycles
- 2 entries tapped for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5)
- By screw-nut
- Diaphragm

Other versions

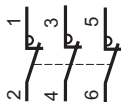
Pressure switches not listed above, comprising the equipment proposed for the choice of reference. Please consult our Customer Care Centre.

Terminal connections

XMP●●●B●●●●



XMP●●●C●●●●



Electromechanical pressure switches
XM range
For power circuits, XMP switches
Accessories and replacement parts



XMLZL001



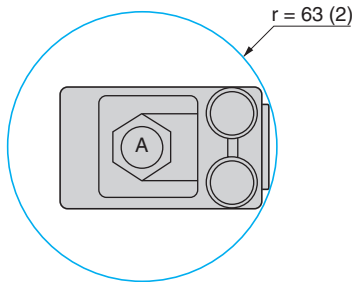
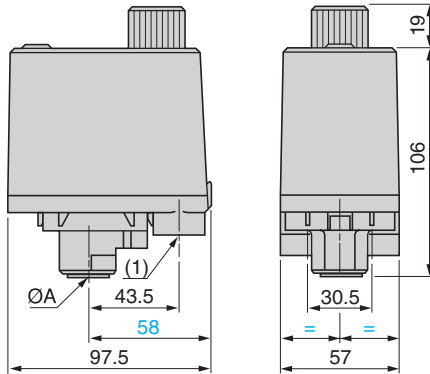
DE9PM1201

References		
Description	Reference	Weight kg
Fixing bracket	XMAZL001	0.035
13P cable gland	With anti pull-out ring (for cable Ø 6...9 mm)	DE9PM1201
		0.005

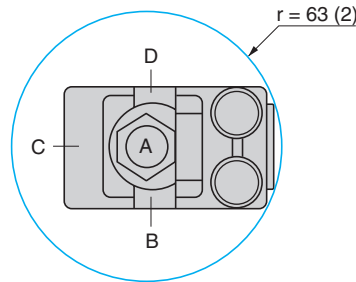
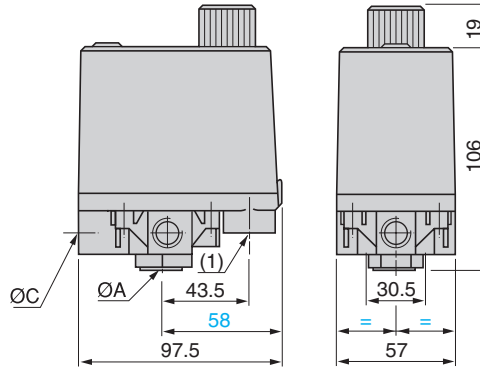
Dimensions

XMP●06●●●●● and XMP●12●●●●●

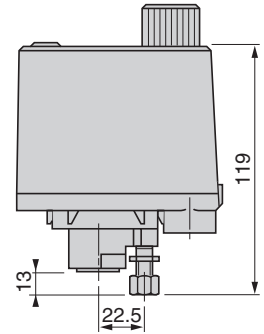
Fluid connection G 1/4 or G 3/8 (female)
Without decompression valve



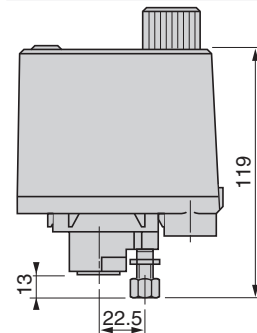
Fluid connection 4 x G 1/4 (female)
Without decompression valve



With straight, instant connection, decompression valve



With straight, olive connection, decompression valve



ØA = G 1/4 or G 3/8 (female)

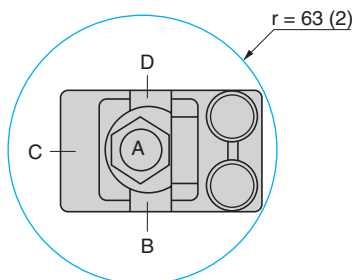
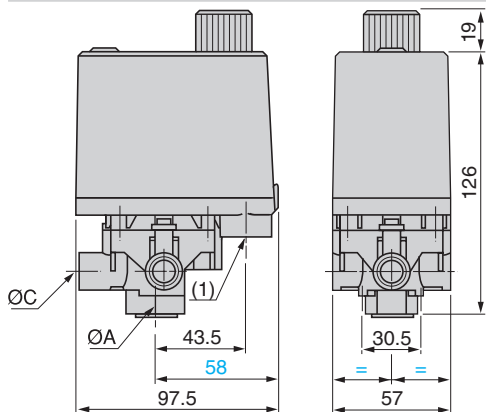
(1) 2 tapped entries for n° 13 cable gland

(2) Minimum clearance zone for screwing-on pressure switch at point A

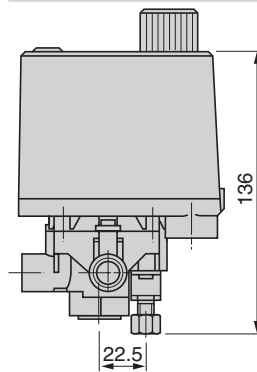
ØA = ØB = ØC = ØD = G 1/4 (female)

XMP●25●●●●●

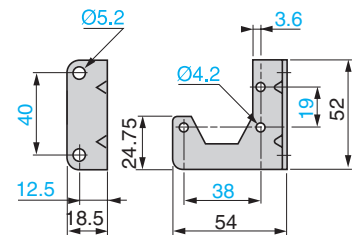
Fluid connection G 1/4 or 4 x G 1/4 (female)
Without decompression valve



With straight, olive connection, decompression valve



Fixing bracket XMAZL001



XMP●25●21●●: ØA only = G 1/4 (female)

XMP●25●24●●: ØA = ØB = ØC = ØD = G 1/4 (female)

(1) 2 tapped entries for n° 13 cable gland

(2) Minimum clearance zone for screwing-on pressure switch at point A

A		XMLA300D2S13	47	XMPA12C2242	79
ACW1M129012	58	XMLA300E2S12	47	XMPA25B2131	79
ACW4M129012	58	XMLA500D2S12	50	XMPB06B2131	76
ACW5M119012	58	XMLA500D2S13	50	XMPC06B2131	76
ACW5M129012	58	XMLA500N2C11	50	XMPC12B2131	78
ACW7M129012	59	XMLAM01V2S12	18	XMPC12C2242	79
ACW8M119012	59	XMLB001S2S12	24	XMPD12C2242	79
ACW8M129012	59	XMLB002A2S12	26	XMPE12C2131	78
ACW21M129012	58	XMLB004A2C11	29	XMPE12C2242	79
ACW23M129012	58	XMLB004A2S12	29	XMPE12C2431	79
ACW25M119012	58	XMLB004A2S13	29	XMPR12B2133	80
ACW28M119012	59	XMLB004C2C11	29	XMPR12B2433	81
ADW3M129012	60	XMLB010A2C11	32	XMPR12C2131	78
ADW4M129012	60	XMLB010A2S12	32	XMPR12C2133	80
ADW5M129012	61	XMLB010A2S13	32	XMPR12C2433	81
ADW6M119012	61	XMLB010C2C11	32	MXXA06L2135	66
ADW6M129012	61	XMLB020A2S12	36	MXXA06L2435	66
ADW7M129012	60	XMLB020A2S13	36	MXXA12L2135	66
		XMLB020C2S12	36	MXXA25L2135	66
D		XMLB035A2C11	40	XZCC43FCP40B	52
DE9PM1201	68	XMLB160D2C11	44		
DE9PM1201	82	XMLB160D2S12	44		
		XMLB300D2C11	48		
F		XMLB300D2S12	48		
FSG2	71	XMLB300D2S13	48		
FSG9	71	XMLB300N2S12	48		
FYG22	72	XMLB500D2C11	51		
FYG32	72	XMLB500D2S12	51		
		XMLB500N2C11	51		
		XMLB500N2S12	51		
X		XMLBL35R2S13	20		
XMAV06L2135	67	XMLBM02V2C11	19		
XMAV12L2135	67	XMLBM02V2S12	19		
XMAV25L2135	67	XMLBS04B2S12	29		
XMAZL001	68 82	XMLBS35R2S12	21		
XMLA002A2C11	25	XMLC002B2S12	27		
XMLA002A2S12	25	XMLC004B2S12	30		
XMLA004A2C11	28	XMLC010B2S12	33		
XMLA004A2S12	28	XMLC010C2S12	33		
XMLA004A2S13	28	XMLC020B2S12	37		
XMLA010A2C11	31	XMLC035B2S12	41		
XMLA010A2S12	31	XMLC035C2S12	41		
XMLA010A2S13	31	XMLC160D2S12	45		
XMLA020A2C11	35	XMLC300D2S12	49		
XMLA020A2S12	35	XMLCS02B2S12	27		
XMLA020A2S13	35	XMLCS02B2S13	27		
XMLA020B2C11	35	XMLCS04B2S12	30		
XMLA020B2S12	35	XMLCS35R2S12	22		
XMLA020P2S12	35	XMLCS35R2S13	22		
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XMLA035A2S12	39	XMLD020C1S12	38		
XMLA035B2C11	39	XMLD160D1S13	46		
XMLA035C2C11	39	XMLDL35R1S12	23		
XMLA070D2C11	42	XMLZL001	52		
XMLA070D2S12	42	XMLZL013	52		
XMLA070D2S13	42	XMLZL014	52		
XMLA070E2S13	42	XMPA06B2131	76		
XMLA070N2S12	42	XMPA06B2242	77		
XMLA160D2C11	43	XMPA06C2131	76		
XMLA160D2S12	43	XMPA06C2242	77		
XMLA160D2S13	43	XMPA12B2131	78		
XMLA160N2C11	43	XMPA12B2242	79		
XMLA300D2C11	47	XMPA12C2131	78		
XMLA300D2S12	47				

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